

PROJECT LOCATION PLAN

NOT TO SCALE

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95% DESIGN DRAWINGS

ELLENVILLE STREAM RESTORATION

VILLAGE OF ELLENVILLE AND TOWN OF WAWARSING STREAM RESTORATION PROJECT

CONTRACT 1 - GENERAL CONSTRUCTION

VILLAGE OFFICIALS

TOWN OFFICIALS

JEFF KAPLAN **MAYOR**
RAYMOND YOUNGER **DEPUTY MAYOR**
JOHN GAVARIS **VILLAGE TRUSTEE**
FRANCISCO OLIVERAS **VILLAGE TRUSTEE**
PATRICIA STEINHOFF **VILLAGE TRUSTEE**

TERRY HOUCK **SUPERVISOR**
DAN JOHNSON **DEPUTY SUPERVISOR**
STEPHEN BRADLEY **COUNCILMAN**
ROGER BUCHWALTER **COUNCILMAN**
THOMAS J. BRIGGS **COUNCILMAN**

DECEMBER 2019



<div>GENERAL NOTES:</div> <div><div><div><div>1.</div><div>THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION, SURVEY, AND STAKE OUT OF PROPOSED IMPROVEMENTS. EXCESS EXCAVATED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF SITE IN A LAWFUL MANNER.</div></div><div><div>2.</div><div>THE CONTRACTOR SHALL INSPECT AND FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS OF ALL AREAS OF PROPOSED WORK AND SHALL INCLUDE PROVISIONS TO AVOID CONFLICTS WITH AND/OR RESTORE SITE FEATURES IN KIND. NO SEPARATE OR ADDITIONAL PAYMENT WILL BE MADE FOR WORK REQUIRED TO AVOID CONFLICTS WITH EXISTING SURFACE FEATURES OR RESTORE THOSE WHICH ARE NOT SHOWN.</div></div><div><div>3.</div><div>CONTRACTOR IS RESPONSIBLE FOR ALL SURVEY AND STAKEOUT FOR THIS PROJECT. THE CONTRACTOR IS ALSO RESPONSIBLE FOR FINAL AS-BUILT PLANS FOR THIS PROJECT IN DIGITAL FORMAT WITH TIES TO ALL UTILITY CONNECTIONS, BENDS, VALVES, LOCATIONS, LENGTHS, OR LINES, AND ELEVATIONS ON PIPE INVERTS, RIMS, AND STRUCTURES / MANHOLES. AS-BUILT PLANS SHALL BE REVIEWED BY THE OWNER AND ENGINEER, AND THE CONTRACTOR SHALL PROVIDE ANY CORRECTION OR ADMISSIONS TO THE SATISFACTION OF THE OWNER AND ENGINEER BEFORE UTILITIES WILL BE ACCEPTED.</div></div><div><div>4.</div><div>UNLESS OTHERWISE NOTED ON THE DRAWINGS, ALL DIMENSIONS SHOWN ON THE SITE DRAWINGS FOLLOW THESE CONVENTIONS:<div><div>a.</div><div>DIMENSIONS TO BUILDINGS AND RETAINING WALLS ARE TO THE EXTERIOR OF EXPOSED FACE OF THE WALL</div></div><div><div>b.</div><div>DIMENSIONS TO A CURB ARE TO THE FACE OF THE CURB</div></div><div><div>c.</div><div>DIMENSIONS TO A FENCE OR RAILING ARE TO THE CENTERLINE OF THE FENCE OR RAILING</div></div><div><div>d.</div><div>DIMENSIONS TO A MANHOLE, INLET, CLEAN OUT, PIPE BEND, VALVE, FIRE HYDRANT OR OTHER UTILITY APPURTENANCE ARE TO THE CENTER OF THE STRUCTURE</div></div><div><div>e.</div><div>THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCY UPON DISCOVERY AND SHALL RECEIVE CLARIFICATION BEFORE PROCEEDING WITH CONSTRUCTION.</div></div></div><div><div>5.</div><div>CONTRACTOR SHALL DEVELOP AND MAINTAIN A DETAILED CONSTRUCTION SCHEDULE THAT IDENTIFIES DATES AND DURATION OF ALL PORTIONS OF THE WORK. FULL TIME ACCESS ALONG ROADWAYS AND DRIVEWAYS TO ALL RESIDENTS SHALL BE ACCOMMODATED.</div></div><div><div>6.</div><div>THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SEQUENCE FOR REVIEW PRIOR TO THE PRE-CONSTRUCTION MEETING. THE FOLLOWING IS A SUGGESTED SEQUENCE OF CONSTRUCTION:<div><div>a.</div><div>OBTAIN PLAN APPROVAL AND OTHER APPLICABLE STATE AND LOCAL PERMITS. THE OWNER SHALL SUBMIT THE NOTICE OF INTENT (NOI) TO OBTAIN COVERAGE UNDER GP-0-15-002 IN ACCORDANCE WITH PART II OF THE PERMIT.</div></div><div><div>b.</div><div>SCHEDULE AND HOLD A PRECONSTRUCTION MEETING WITH OWNER, ENGINEER, CONTRACTOR(S), GOVERNOR'S OFFICE OF STORM RECOVERY (GOSR) GRANT MANAGER, AND VILLAGE/TOWN AT LEAST ONE (1) WEEK PRIOR TO STARTING CONSTRUCTION.</div></div><div><div>c.</div><div>ALL CONTRACTORS AND SUBCONTRACTORS MUST COMPLETE AND EXECUTE A CONTRACTOR CERTIFICATION FORM AS INCLUDED IN THE SWPPP.</div></div><div><div>d.</div><div>MOBILIZE TO SITE AND LAYOUT ESTABLISHED LIMITS OF WORK AND BUFFER AREAS PRIOR TO STARTING CONSTRUCTION. DELINEATE LIMITS OF DISTURBANCE BY INSTALLING BARRIERS BETWEEN WORK AREA AND ENVIRONMENTALLY SENSITIVE AREAS. IDENTIFY TREES TO BE PROTECTED NEAR WORK LIMITS AND INSTALL TREE PROTECTION MEASURES. OBTAIN APPROVAL FROM OWNER PRIOR TO ANY TREE REMOVAL.</div></div><div><div>e.</div><div>ESTABLISH CONSTRUCTION ACCESS, STAGING, EQUIPMENT, LAYDOWN, TEMPORARY STOCKPILE, AND CONCRETE WASHOUT AREAS.</div></div><div><div>f.</div><div>INSTALL EROSION AND SEDIMENT CONTROL MEASURES IN PREPARATION OF THE CONSTRUCTION. ALL EROSION AND SEDIMENT CONTROL STRUCTURES (INCLUDING STABILIZED CONSTRUCTION ENTRANCES) SHALL BE IN PLACE PRIOR TO UPGRADIENT LAND DISTURBANCE.</div></div><div><div>g.</div><div>COMPLETE TREE REMOVAL, AS REQUIRED WITHIN THE LIMITS OF DISTURBANCE.</div></div><div><div>h.</div><div>COMPLETE ROUGH GRADING AND CONSTRUCTION OF ALL UTILITIES AND STRUCTURES.</div></div><div><div>i.</div><div>COMPLETE RESTORATION OF ALL DISTURBED AREAS INCLUDING PAVING, LANDSCAPE PLANTING, AND SEEDING.</div></div><div><div>j.</div><div>ONCE FINAL STABILIZATION IS ACHIEVED, REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SUBJECT TO THE APPROVAL OF THE ENGINEER.</div></div><div><div>k.</div><div>MAKE REPAIRS AS REQUIRED BY THE OWNER TO OBTAIN CERTIFICATE OF COMPLIANCE AND FILE NOTICE OF TERMINATION (NOT) IN ACCORDANCE WITH GP-0-15-002 PART V.</div></div></div><div><div>7.</div><div>THE CONTRACTOR SHALL PREPARE A MAINTENANCE AND PROTECTION OF TRAFFIC PLAN THAT INCLUDES, BUT IS NOT LIMITED TO, AN ADVANCED WARNING SIGN LAYOUT PLAN FOR ROADWAYS AND A CONSTRUCTION SEQUENCING PLAN. THE PLAN SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER PRIOR TO COMMENCING CONSTRUCTION.</div></div><div><div>8.</div><div>THE CONTRACTOR SHALL COORDINATE WORK AND OBTAIN AND ADHERE TO ALL REQUIRED PERMITS INCLUDING THOSE FROM THE US ACOE, NYS DEC, VILLAGE/TOWN HWY DEPT, NYSDOT, AND ULSTER COUNTY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND INCUR THE COST OF ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATES, ETC.</div></div><div><div>9.</div><div>CONTRACTOR SHALL PROVIDE A WRITTEN PLAN TO INDICATE HOW ACTIVITIES WILL BE CONDUCTED TO AVOID OR MINIMIZE UNNECESSARY NOISE, DUST, AND VISUAL IMPACTS OF CONSTRUCTION ACTIVITIES ON SITE, MANAGE CONSTRUCTION TRAFFIC ON SITE, STAGING PROCEDURES, AND HOW CONSTRUCTION TRAFFIC EXITING AND ENTERING THE SITE WILL BE MANAGED TO AVOID UNNECESSARY IMPACT ON TRAFFIC USING LOCAL ROADS.</div></div><div><div>10.</div><div>CONTRACTOR TO PROVIDE FULL TIME ACCESS ALONG ROADWAYS AND DRIVEWAYS TO OWNER.</div></div><div><div>11.</div><div>THE OWNER MAY AUTHORIZE APPROPRIATE PROFESSIONALS TO OBSERVE AND MONITOR THE SITE ACTIVITIES WHEN DEEMED NECESSARY TO ENSURE COMPLIANCE WITH THE CONDITIONS OF APPROVAL OR THE PROTECTION OF ENVIRONMENTALLY SENSITIVE AREAS.</div></div><div><div>12.</div><div>CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL FOR DELIVERY OF MATERIALS AND RELATED WORK.</div></div><div><div>13.</div><div>THE CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION, INCLUDING ANY ROCK OR CONCRETE EXCAVATION, STRUCTURES AND CONCRETE EXCAVATION AT THE PROJECT SITE.</div></div><div><div>14.</div><div>CONTRACTOR SHALL TAKE CARE NOT TO UNDERMINE ROADWAY/DRIVEWAY PAVEMENT. ANY DISTURBED OR UNDERMINED PAVEMENT SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.</div></div><div><div>15.</div><div>CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF WORK.</div></div><div><div>16.</div><div>CONTRACTOR SHALL REMOVE, STORE AND REPLACE SIGNS AND MAILBOXES AS NECESSARY. SIGNS AND MAILBOXES MUST REMAIN FUNCTIONAL AND ACCESSIBLE AT ALL TIMES. ALL DAMAGED SIGNS SHALL BE REPLACED IN KIND AT CONTRACTORS EXPENSE.</div></div><div><div>17.</div><div>RESTORE ALL SURFACES TO AS GOOD OR BETTER CONDITION THAN BEFORE CONSTRUCTION AS SOON AS POSSIBLE FOLLOWING COMPLETION OF WORK IN ANY AREA. PROGRESS RESTORATION PROMPTLY TO MINIMIZE IMPACTS TO VEHICULAR AND PEDESTRIAN ACCESS.</div></div><div><div>18.</div><div>ALL COSTS ASSOCIATED WITH PREPARING ANY STORAGE AND STAGING AREA(S) SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THIS INCLUDES, BUT IS NOT LIMITED TO, CLEARING AND GRADING, STABILIZATION OF THE WORK YARD SURFACE, CONSTRUCTION OF ALL TEMPORARY UTILITIES, ACCESS ROADS, ALL SECURITY FENCING, AND RESTORATION OF STAGING OR DISTURBED AREAS.</div></div></div></div></div></div>	<div>39. CONTRACTOR TO REPLACE PAVEMENT MARKINGS WHERE ASPHALT IS REMOVED AND REPLACED.</div> <div><div>20.</div><div>THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ANY PROPERTY LINE, SURVEY, OR RIGHT-OF-WAY MONUMENTATION DISTURBED DURING CONSTRUCTION. THE CONTRACTOR SHALL EMPLOY A NEW YORK STATE LICENSED LAND SURVEYOR TO RESTORE ALL DISTURBED MONUMENTS TO THEIR ORIGINAL LOCATION AT THE CONTRACTOR'S EXPENSE.</div></div> <div><div>21.</div><div>THE CONTRACTOR WILL BE REQUIRED TO REMOVE ALL SNOW AND ICE AS NEEDED AT NO ADDITIONAL COST. CONTRACTORS OPERATIONS ALONG THE HIGHWAY SHOULDERS, MUST NOT INTERFERE WITH THE OWNER'S ABILITY TO REMOVE SNOW AND PROVIDE ICE CONTROL.</div></div> <div><div>22.</div><div>IF ANY HAZARDOUS CONDITIONS ARE ENCOUNTERED, THE CONTRACTOR SHALL FOLLOW THE PREVAILING FEDERAL, STATE, AND LOCAL REQUIREMENTS FOR NOTIFICATIONS, ISOLATION, REMOVAL, STORAGE AND ALL PERTINENT REGULATIONS.</div></div> <div><div>23.</div><div>PRIOR TO COMMENCING WORK, CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES, BUILDINGS, PAVEMENTS, AND OTHER SITE FEATURES TO REMAIN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO UTILIZE A LOCATING SERVICE TO VERIFY UTILITY LOCATIONS. NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES. CONTRACTOR SHALL CONTACT DIG SAFELY NEW YORK FOR LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO THE COMMENCING OF CONSTRUCTION. IF ANY UTILITIES ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE REPAIRED TO STANDARD OF AUTHORITIES HAVING JURISDICTION AT THE CONTRACTOR'S EXPENSE.</div></div> <div><div>24.</div><div>PRIOR TO START OF WORK, COORDINATE CONSTRUCTION VEHICLE ACCESS/EGRESS ROUTES, STOCKPILE AREA, AND FIELD OFFICE AREA IF REQUIRED.</div></div> <div><div>25.</div><div>STREAM PRACTICE LOCATIONS SHOWN ARE APPROXIMATE AND ARE TO BE CONFIRMED IN FIELD BY ENGINEER TO MINIMIZE THE REMOVAL AND DISTURBANCE AND TO AVOID SLOPES, ETC.</div></div> <div><div>ENVIRONMENTAL RESOURCES NOTES:</div><div><div>1.</div><div>CONTRACTOR SHALL IDENTIFY AND PROVIDE FENCING TO PROTECT SENSITIVE AREAS IDENTIFIED ON THE PLANS IN COORDINATION WITH THE ENGINEER AND OWNER BEFORE COMMENCING ANY WORK.</div></div><div><div>2.</div><div>WORK IN WETLANDS, WATERCOURSES, AND OTHER ECOLOGICALLY SENSITIVE AREAS SHALL USE THE SPECIFIC CONSTRUCTION TECHNIQUES DESCRIBED IN THE SWPPP AND CONTRACT DOCUMENTS. PRIOR TO COMMENCING WORK, CONFIRM LIMITS OF CONSTRUCTION FENCE TO BE PLACED AT SITE WITH OWNER, ENGINEER, AND TOWN.</div></div><div><div>3.</div><div>ALL TREE CLEARING ACTIVITIES ON THE SITE SHALL BE RESTRICTED TO THE PERIOD BETWEEN NOVEMBER 1 AND MARCH 31. INDIVIDUAL TREE REMOVAL FOR THE PLACEMENT OF STREAM BARBS AND CROSS VANES IS PERMITTED FOLLOWING EMERGENT BAT SURVEY THE NIGHT PRIOR TO REMOVAL. CONTACT XXX FOR NOTIFICATION OF EMERGENT BAT SURVEY.</div></div><div><div>4.</div><div>TREE REMOVAL SHALL BE CONFINED TO THE DESIGNATED WORK LIMITS OR OTHER PROPERTY AS INDICATED ON THE PLANS. THE CONTRACTOR SHALL MAKE EVERY ATTEMPT TO PRESERVE ALL TREES. NO CLEARING SHALL BE COMMENCED UNLESS FIRST APPROVED BY THE ENGINEER AND OWNER. TREE REMOVALS AND CLEARING SHALL BE REVIEWED IN THE FIELD WITH THE ENGINEER AND OWNER, ANY UNAUTHORIZED DAMAGE TO LANDSCAPING OR TREES SHALL REQUIRE THEM TO BE REPLACED IN KIND AT NO ADDITIONAL COST TO THE OWNER.</div></div><div><div>5.</div><div>CLEARING OF TREES SOLELY FOR STAGING OF EQUIPMENT IS NOT ACCEPTABLE. DISTURBANCE SHOULD BE LIMITED TO ONLY WHAT IS NECESSARY FOR EQUIPMENT PASSAGE AND THE CONSTRUCTION (INCLUDING MATERIALS STAGING) OF PERMANENT STRUCTURES. EXCESSIVE STAGING AREAS SHOULD BE AVOIDED.</div></div></div> <div><div>GRADING NOTES:</div><div><div>1.</div><div>THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE FOR FIELD ADJUSTMENTS OF NEW WORK TO BLEND WITH EXISTING WORK THAT IS TO REMAIN.</div></div><div><div>2.</div><div>THE CONTRACTOR SHALL STAKE OUT ALL GRADES IN THE FIELD PRIOR TO CONSTRUCTION AND NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY OF ANY DISCREPANCIES WITH THE CONSTRUCTION DOCUMENTS.</div></div><div><div>3.</div><div>THE CONTRACTOR SHALL CONTINUALLY MONITOR EXISTING STORM WATER AND EROSION CONTROL SYSTEMS AND PERIODICALLY CLEAN, REPAIR, AND UPGRADE AS REQUIRED.</div></div><div><div>4.</div><div>GRADES WITHIN DRIP-LINE OF VEGETATION TO REMAIN SHALL NOT BE COMPACTED OR ALTERED UNLESS SO DIRECTED IN EITHER THE DRAWINGS OR SPECIFICATIONS. IN THE EVENT THIS IS UNAVOIDABLE, CONSULT THE OWNER'S REPRESENTATIVE BEFORE PROCEEDING.</div></div></div> <div><div>UTILITY NOTES:</div><div><div>1.</div><div>PLANS ILLUSTRATE KNOWN SUBSURFACE STRUCTURES, ABOVE GROUND STRUCTURES, AND/OR UTILITIES BELIEVED TO EXIST IN THE WORKING AREA. THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH MAY BE DIFFERENT FROM THAT SHOWN OR MAY NOT BE SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK AND TO LOCATE AND PROTECT ALL UTILITIES. CONTRACTOR SHALL COMPLY WITH THE STATE OF NEW YORK DEPARTMENT OF PUBLIC SERVICE, 16 NYCRR PART 753. OBTAIN A DIG SAFELY NEW YORK STAKE OUT PRIOR TO COMMENCING CONSTRUCTION.</div></div><div><div>2.</div><div>DAMAGE TO UTILITIES RESULTING FROM NEGLIGENCE OR FAILURE ON THE PART OF THE CONTRACTOR TO MAKE ACCURATE LOCATION IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING OR REPAIRING ANY DAMAGED UTILITY TO THE SATISFACTION OF THE OWNER AND ENGINEER AT NO ADDITIONAL COST TO THE OWNER.</div></div><div><div>3.</div><div>CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING UTILITY POLES AS REQUIRED, INCLUDING TEMPORARILY SUPPORTING POLES DURING IMPROVEMENTS AT NO ADDITIONAL COST TO THE OWNER. COORDINATE UTILITY POLE WORK WITH LOCAL UTILITY COMPANY.</div></div><div><div>4.</div><div>NO WORK SHALL BE PROGRESSED ON PRIVATE PROPERTY, OR OUTSIDE OF EASEMENTS SHOWN ON PLANS WITHOUT WRITTEN AUTHORIZATION FROM THE OWNER.</div></div></div>	<div>SEQUENCING / STAGING AREA NOTES:</div> <div><div>1.</div><div>EROSION AND SEDIMENT CONTROL FEATURES SHOWN ARE CONSIDERED A MINIMUM AMOUNT OF CONTROL NECESSARY TO ENSURE WATER QUALITY IN WORK AREAS. THE INTENT IS TO CONTAIN THE INDIVIDUAL WORK AREAS WITH BARRIERS AND TURBIDITY CURTAIN AND FILTER DEWATERING VOLUME PUMPED WITH SEDIMENT BAGS AND NATURAL FILTRATION OF DRAINAGE DITCH VEGETATION WHILE DIVERTING STREAM FLOW AROUND THE WORK ZONE. ANY DEPOSITION OF SEDIMENTS IN THE OLD GREENFIELD ROAD DITCH WILL REQUIRE REMOVAL UNLESS MINUTE AS DETERMINED BY THE ENGINEER. IT IS BELIEVED THAT THE CONTAINED WORK AREAS DO NOT ALL NEED TOTAL DEWATERING TO PLACE LARGE ROCK STRUCTURES BUT WILL VARY. THE CONTRACTOR IS REQUIRED TO SUBMIT FOR OWNER'S AND ENGINEER REVIEW; THEIR OWN EROSION AND SEDIMENT CONTROL PLAN AND NARRATIVE TO SHOW CONSTRUCTION SEQUENCING, EROSION AND SEDIMENT CONTROL PRACTICES, DURATION OF USE/RE-USE, RESTORATION AND CONSTRUCTION STAGING TO ADDRESS ALL AREAS PROPOSED TO BE DISTURBED NEEDED TO CONSTRUCT THE PROJECT.</div></div> <div><div>2.</div><div>THE CONTRACTOR WILL BE REQUIRED TO SUBMIT A CONSTRUCTION SEQUENCING PLAN AND NARRATIVE (PARTICULARLY REGARDING THE KEYING-IN OF STREAM BARBS THROUGH THE REVETMENT WALL AT SITE 5) TO THE OWNER AND ENGINEER THAT SHOWS THE ORDER OF THE WORK, DURATION OF ALL PORTIONS AND PHASES OF THE WORK FOR EACH SITE THAT INCLUDES WHERE CONSTRUCTION STAGING, MATERIAL STORAGE, EQUIPMENT ACCESS, SANITARY FACILITIES FOR THE CREW, ANY LIGHTING OR SPECIAL NEEDS THAT WILL DISTURB THE AREA. INDICATE HOURS OF OPERATION AND MEANS OF NOTIFICATION TO PROPERTY OWNERS OF THE WORK, SCHEDULE AND IMPACTS ON TRAVEL PRIOR TO COMMENCING. RESTORE ALL PROPERTY DISTURBED TO ORIGINAL CONDITION.</div></div> <div><div>3.</div><div>FOR OLD GREENFIELD ROAD AND WORK AT SITES 2, 3, 4, AND 5 THE TOWN WILL ALLOW PORTIONS OF OLD GREENFIELD ROAD WEST OF BARBARA ROAD TO BE CLOSED DURING CONSTRUCTION. ROAD WILL BE ALLOWED TO CLOSE FROM 10' WEST OF BRIDGE TO 300' WEST OF WESTERLY EXTENT OF SITE 5 WORK SITE. INCLUDE MEANS OF PROTECTION IN NARRATIVES.</div></div> <div><div>4.</div><div>THE ROAD SURFACE MAY BE USED AS A MATERIAL STORAGE AREA IF SUFFICIENTLY PROTECTED BY STEEL PLATES, WOODEN MATTRESSES OR APPROPRIATE MEANS TO AVOID DAMAGING ROAD INFRASTRUCTURE. REPAIR ALL DAMAGES.</div></div>
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SURVEY NOTES:

1.

SURVEY FOR SITES 1, 10, AND 13 PREPARED BY BROOKS AND BROOKS SURVEYORS, P.C.

2.

SUBJECT TO ALL RIGHTS OF WAYS, COVENANTS, EASEMENTS, RESTRICTIONS, CONDITIONS AND AGREEMENTS OF RECORD.

3.

SUBJECT TO WHATEVER STATE OF FACTS A COMPLETE SEARCH OF TITLE MAY REVEAL.

4.

SUBSURFACE STRUCTURES NOT VISIBLE OR READILY APPARENT ARE NOT SHOWN AND THEIR LOCATION AND EXTENT ARE NOT CERTIFIED.

5.

AREA SHOWN CONTAINS FEDERAL WETLAND NOT DELINEATED OR SHOWN HEREON. AREA LIES WITHIN A FEMA FLOOD ZONE AS DEPICTED ON FEMA FIRM NO. 36111C0685F EFFECTIVE DATE 18 NOVEMBER, 2016.

6.

APPROXIMATE BOUNDARIES SHOWN HEREON AS PER ULSTER COUNTY GIS TAX MAPPING, AND ARE SUBJECT TO COMPLETE SURVEYS.

7.

CONTOURS BASED ON FIELD SURVEY. ELEVATIONS ARE APPROXIMATE NAVD88 AS DERIVED BY RTK GPS OBSERVATIONS.

LIDAR TOPOGRAPHY NOTES:

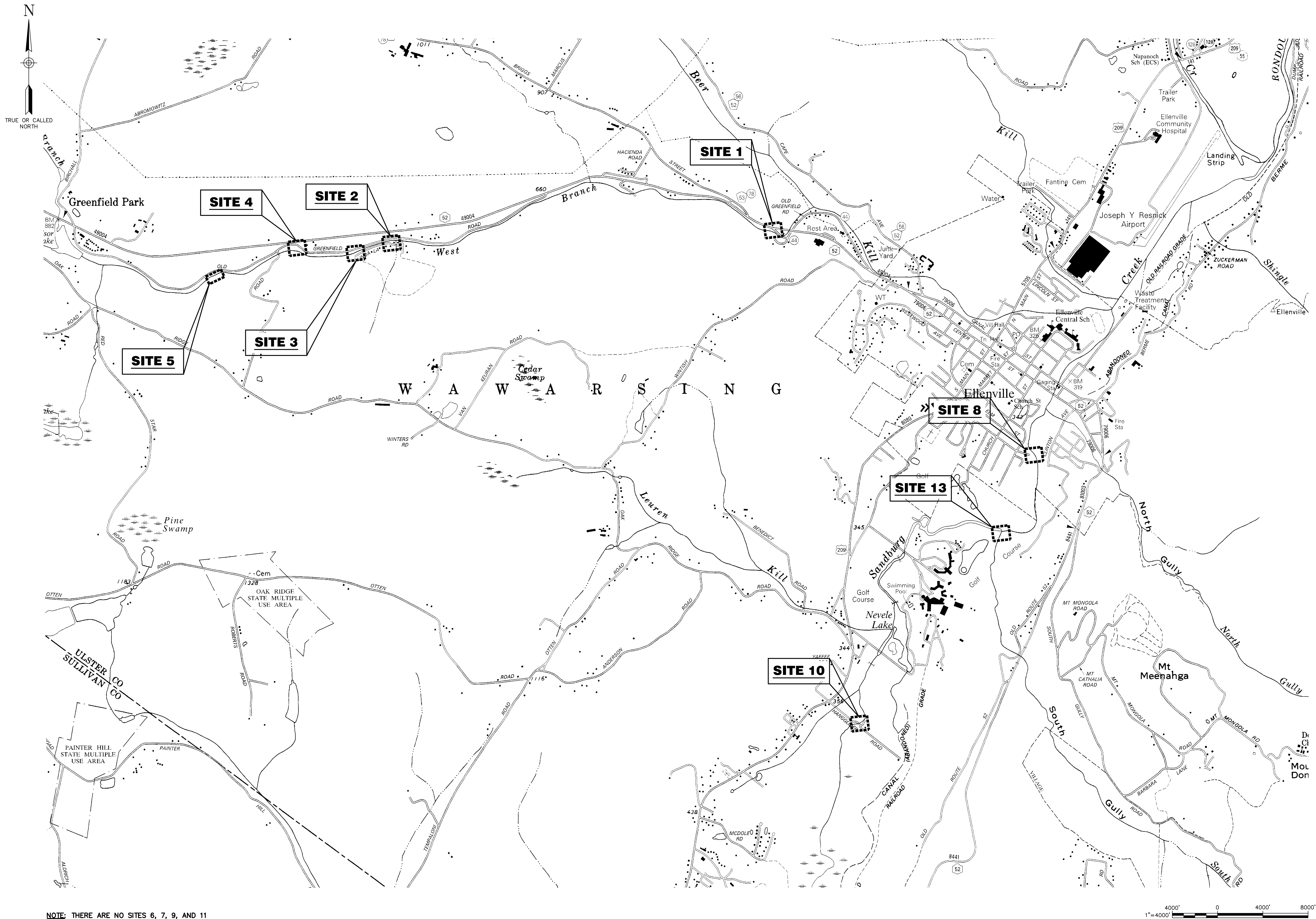
1.

PLANS FOR ALL SITES WITH THE EXCEPTION OF SITES 1, 10, AND 13 WERE PREPARED USING LIDAR TOPOGRAPHY AND ORTHOIMAGERY SOURCED FROM THE NYS GIS CLEARINGHOUSE.

2.

THE NYS HIGH RESOLUTION DIGITAL ORTHOIMAGERY IS ACCURATE TO ±8-FT HORIZONTALLY AT THE 95% CONFIDENCE LEVEL FOR 2-FT RESOLUTION.

Plotted: Dec 18, 2019 - 2:11PM
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Checked by: DHE
SYR By: WBG
Project No.: 924.068.002
Project Name: Ellenville Stream Restoration Phase 2&3
Designed by: BDC
In Charge of: RAM
Last Saved: 12/18/2019



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REVISIONS	

VILLAGE OF ELENVILLE & TOWN OF WAWARSING
STREAM RESTORATION PROJECT
KEY MAP
ULSTER COUNTY, NEW YORK
TOWN OF WAWARSING

Barton & Loguidice

DRAFT

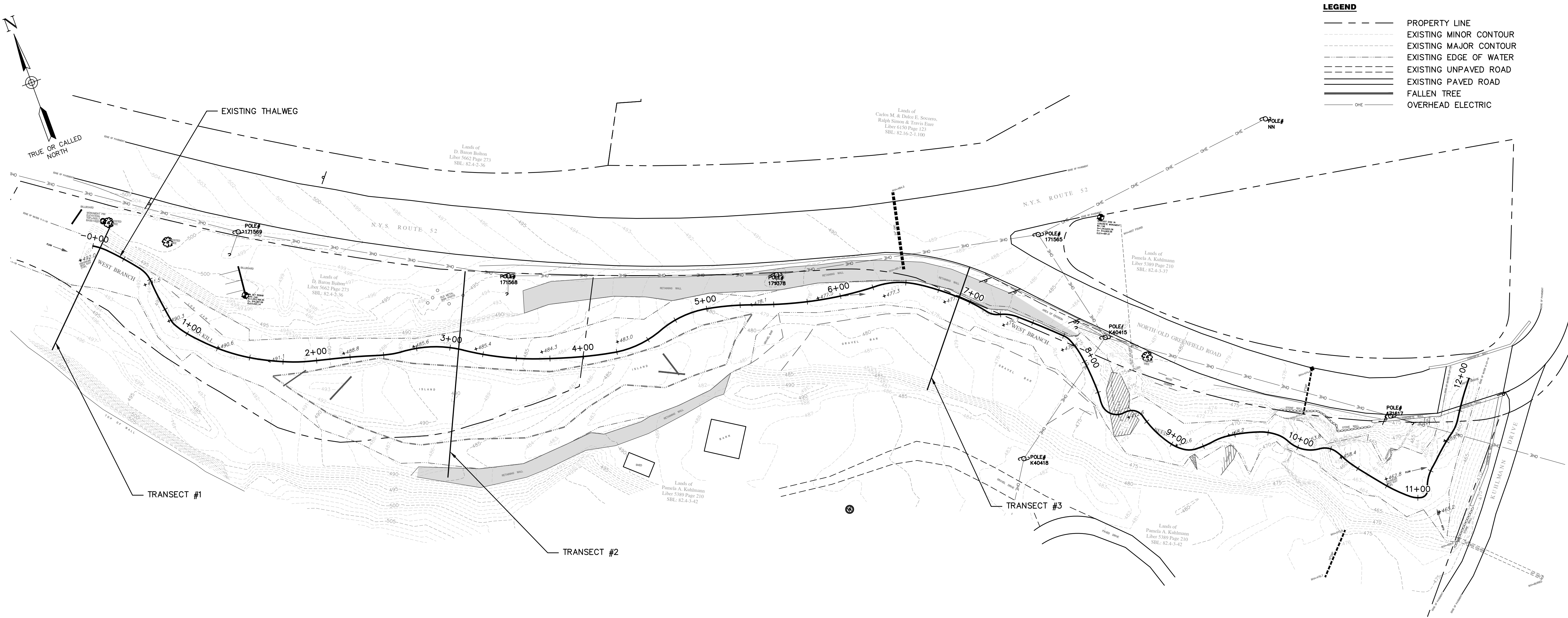
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DECEMBER 2019

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AS SHOWN

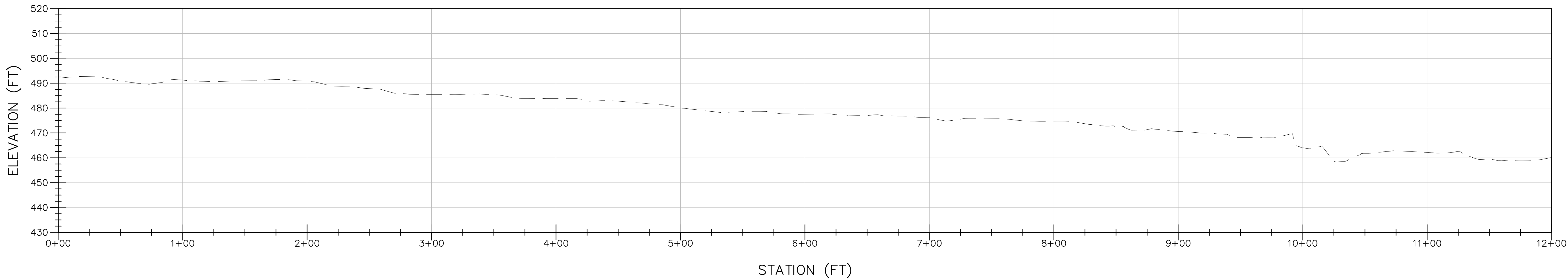
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C-101

Project Number
924.068.002

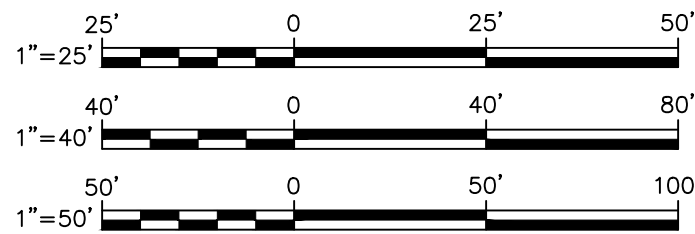
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File Name: 924.068.002_Site1_C111-Existing Conditions.dwg Project No: 924.068.002 Project Name: Ellenville Stream Restoration Phase 2&3
Checked by: DHE Drawn by: MBG Designed by: ANE In Charge of RAM Last Saved: 9/24/2019



EXISTING CONDITIONS PLAN
SCALE: 1" = 40'-0"



EXISTING THALWEG PROFILE
HORIZONTAL SCALE: 1" = 50'-0"
VERTICAL SCALE: 1" = 25'-0"



- LEGEND**
- PROPERTY LINE
 - EXISTING MINOR CONTOUR
 - EXISTING MAJOR CONTOUR
 - EXISTING EDGE OF WATER
 - EXISTING UNPAVED ROAD
 - EXISTING PAVED ROAD
 - FALLEN TREE
 - OVERHEAD ELECTRIC

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION."

REVISIONS	

VILLAGE OF ELLENVILLE & TOWN OF WAWARSING
STREAM RESTORATION PROJECT
SITE 1
EXISTING CONDITIONS
TOWN OF WAWARSING
ULSTER COUNTY, NEW YORK

**Barton
&Loguidice**

DRAFT

Date
DECEMBER 2019
Scale
AS SHOWN
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C-111
Project Number
924.068.002

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File Name: 924.068.002_Site_C112-Restoration Plan.dwg Project No.: 924.068.002 Project Name: Ellenville Stream Restoration Phase 2&3
Checked by: DLE Drawn by: WEG Designed by: ALE In Charge of: RAL Last Saved: 10/28/2019

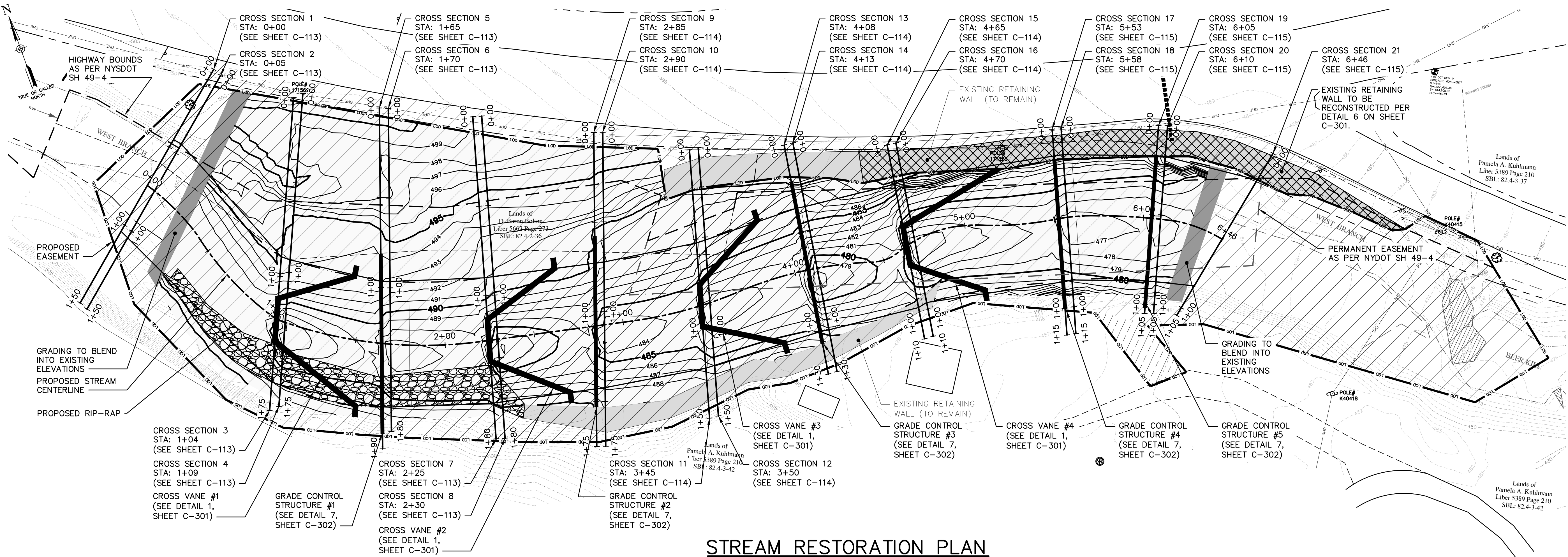
SYR By: WEG

CROSS VANE #1 LAYOUT			
POINT	NORTHING (FT)	EASTING (FT)	ELEV.(FT)
1	1,053,628.54	514,273.56	492.59
2	1,053,634.01	514,276.03	492.59
3	1,053,683.51	514,246.19	489.93
4	1,053,694.36	514,251.10	489.93
5	1,053,705.21	514,256.02	489.93
6	1,053,702.27	514,300.26	493.63
7	1,053,707.38	514,303.41	493.63

CROSS VANE #2 LAYOUT			
POINT	NORTHING (FT)	EASTING (FT)	ELEV.(FT)
1	1,053,594.47	514,389.85	488.97
2	1,053,600.34	514,391.10	488.97
3	1,053,631.82	514,355.25	485.83
4	1,053,643.04	514,358.43	485.83
5	1,053,654.26	514,361.62	485.83
6	1,053,668.21	514,406.47	490.38
7	1,053,674.07	514,407.77	490.38

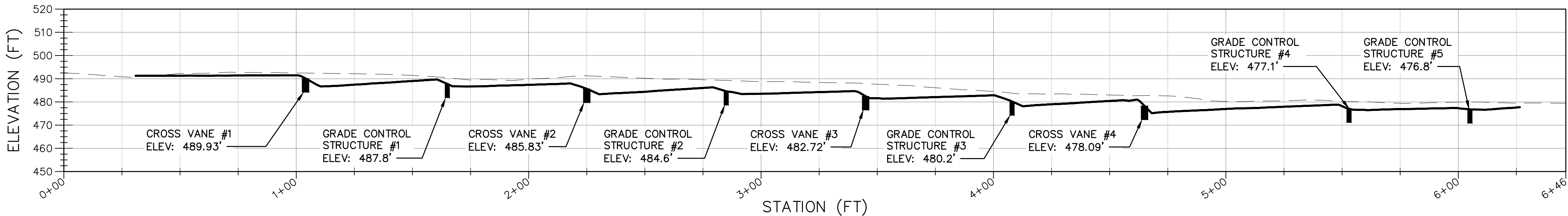
CROSS VANE #3 LAYOUT			
POINT	NORTHING (FT)	EASTING (FT)	ELEV.(FT)
1	1,053,579.37	514,512.46	485.73
2	1,053,585.37	514,512.70	485.73
3	1,053,609.63	514,473.03	482.72
4	1,053,620.85	514,476.22	482.72
5	1,053,632.07	514,479.41	482.72
6	1,053,654.80	514,521.84	486.91
7	1,053,660.80	514,521.97	486.91

CROSS VANE #4 LAYOUT			
POINT	NORTHING (FT)	EASTING (FT)	ELEV.(FT)
1	1,053,568.87	514,626.82	481.72
2	1,053,574.77	514,627.93	481.72
3	1,053,602.14	514,593.51	478.09
4	1,053,612.92	514,595.23	478.09
5	1,053,623.70	514,596.95	478.09
6	1,053,635.77	514,657.91	485.67
7	-	-	-



STREAM RESTORATION PLAN

SCALE: 1" = 30'-0"



PROPOSED STREAM CENTERLINE PROFILE

SCALE: 1" = 30'-0"

CROSS SECTION COORDINATES					CROSS SECTION COORDINATES					CROSS SECTION COORDINATES				
CROSS SECTION	POINT	NORTHING (FT)	EASTING (FT)	ELEV.(FT)	CROSS SECTION	POINT	NORTHING (FT)	EASTING (FT)	ELEV.(FT)	CROSS SECTION	POINT	NORTHING (FT)	EASTING (FT)	ELEV.(FT)
1	STA: 0+00	1,053,837.49	514,265.95	502.41	8	STA: 0+00	1,053,761.92	514,397.40	499.30	15	STA: 0+00	1,053,669.48	514,604.26	491.73
	CENTERLINE	1,053,789.33	514,209.03	492.48		CENTERLINE	1,053,641.97	514,363.33	483.66		CENTERLINE	1,053,612.92	514,595.23	478.09
	END STA.	1,053,740.60	514,151.44	509.11		END STA.	1,053,588.77	514,348.22	495.61		END STA.	1,053,560.86	514,586.92	487.52
2	STA: 0+00	1,053,832.99	514,268.37	501.50	9	STA: 0+01	1,053,731.98	514,452.97	497.24	16	STA: 0+00	1,053,668.87	514,609.23	491.80
	CENTERLINE	1,053,785.09	514,211.76	492.28		CENTERLINE	1,053,630.28	514,417.06	484.74		CENTERLINE	1,053,614.04	514,600.48	475.41
	END STA.	1,053,736.10	514,153.86	509.24		END STA.	1,053,566.96	514,394.70	494.69		END STA.	1,053,560.49	514,591.92	487.55
3	STA: 0+00	1,053,807.57	514,302.41	500.11	10	STA: 0+00	1,053,730.40	514,457.72	497.05	17	STA: 0+00	1,053,646.30	514,693.74	490.52
	CENTERLINE	1,053,694.58	514,251.20	489.97		CENTERLINE	1,053,629.21	514,421.98	483.85		CENTERLINE	1,053,598.21	514,680.05	477.21
	END STA.	1,053,648.18	514,230.17	496.10		END STA.	1,053,565.39	514,399.44	493.97		END STA.	1,053,535.70	514,662.25	486.72
4	STA: 0+00	1,053,807.90	514,308.05	500.77	11	STA: 0+00	1,053,704.68	514,499.77	494.64	18	STA: 0+00	1,053,645.32	514,698.66	490.40
	CENTERLINE	1,053,691.29	514,255.20	487.12		CENTERLINE	1,053,620.85	514,476.22	482.72		CENTERLINE	1,053,597.24	514,684.97	476.63
	END STA.	1,053,648.51	514,235.81	495.27		END STA.	1,053,560.27	514,459.20	496.84		END STA.	1,053,534.72	514,667.17	486.62
5	STA: 0+00	1,053,785.70	514,345.35	500.39	12	STA: 0+00	1,053,704.15	514,504.82	494.75	19	STA: 0+00	1,053,627.91	514,750.15	489.16
	CENTERLINE	1,053,661.97	514,301.66	487.97		CENTERLINE	1,053,620.67	514,481.36	481.59		CENTERLINE	1,053,580.66	514,728.84	476.85
	END STA.	1,053,606.54	514,282.09	503.36		END STA.	1,053,559.74	514,464.25	497.84		END STA.	1,053,532.20	514,706.98	485.25
6	STA: 0+00	1,053,783.74	514,349.97	500.38	13	STA: 0+00	1,053,689.09	514,550.32	493.57	20	STA: 0+00	1,053,626.25	514,754.89	489.13
	CENTERLINE	1,053,659.84	514,306.21	486.71		CENTERLINE	1,053,619.11	514,539.14	480.37		CENTERLINE	1,053,578.48	514,733.34	479.94
	END STA.	1,053,614.01	514,290.03	499.28		END STA.	1,053,560.72	514,529.82	489.37		END STA.	1,053,530.54	514,711.72	485.09
7	STA: 0+00	1,053,763.28	514,392.59	499.34	14	STA: 0+00	1,053,688.52	514,555.29	493.51	21	STA: 0+00	1,053,591.49	514,804.78	486.77
	CENTERLINE	1,053,643.04	514,358.43	485.83		CENTERLINE	1,053,618.34	514,544.08	478.16		CENTERLINE	1,053,556.30	514,761.73	479.37
	END STA.	1,053,590.13	514,343.41	496.05		END STA.	1,053,560.38	514,534.83	489.17		END STA.	1,053,525.04	514,723.48	484.64

LEGEND

- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING EDGE OF WATER
- EXISTING UNPAVED ROAD
- EXISTING PAVED ROAD
- EXISTING PERMANENT EASEMENT
- FALLEN TREE
- OVERHEAD ELECTRIC
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPERTY BOUNDARY
- PROPOSED STREAM CENTERLINE
- PROPOSED STREAM BANK
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- PROPOSED TEMPORARY EASEMENT
- PROPOSED RIP-RAP

NOTE:

- COORDINATES REFERENCE DATUM NAD83 NEW YORK STATE PLANES, CENTRAL ZONE, US SURVEY FOOT.



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REVISIONS

NO.	DESCRIPTION	DATE

VILLAGE OF ELLENVILLE & TOWN OF WAWARSING
STREAM RESTORATION PROJECT

SITE 1
RESTORATION PLAN

TOWN OF WAWARSING
ULSTER COUNTY, NEW YORK

Barton
&Loguidice

DRAFT

Date
DECEMBER 2019
Scale
AS SHOWN
Sheet Number
C-112
Project Number
924.068.002

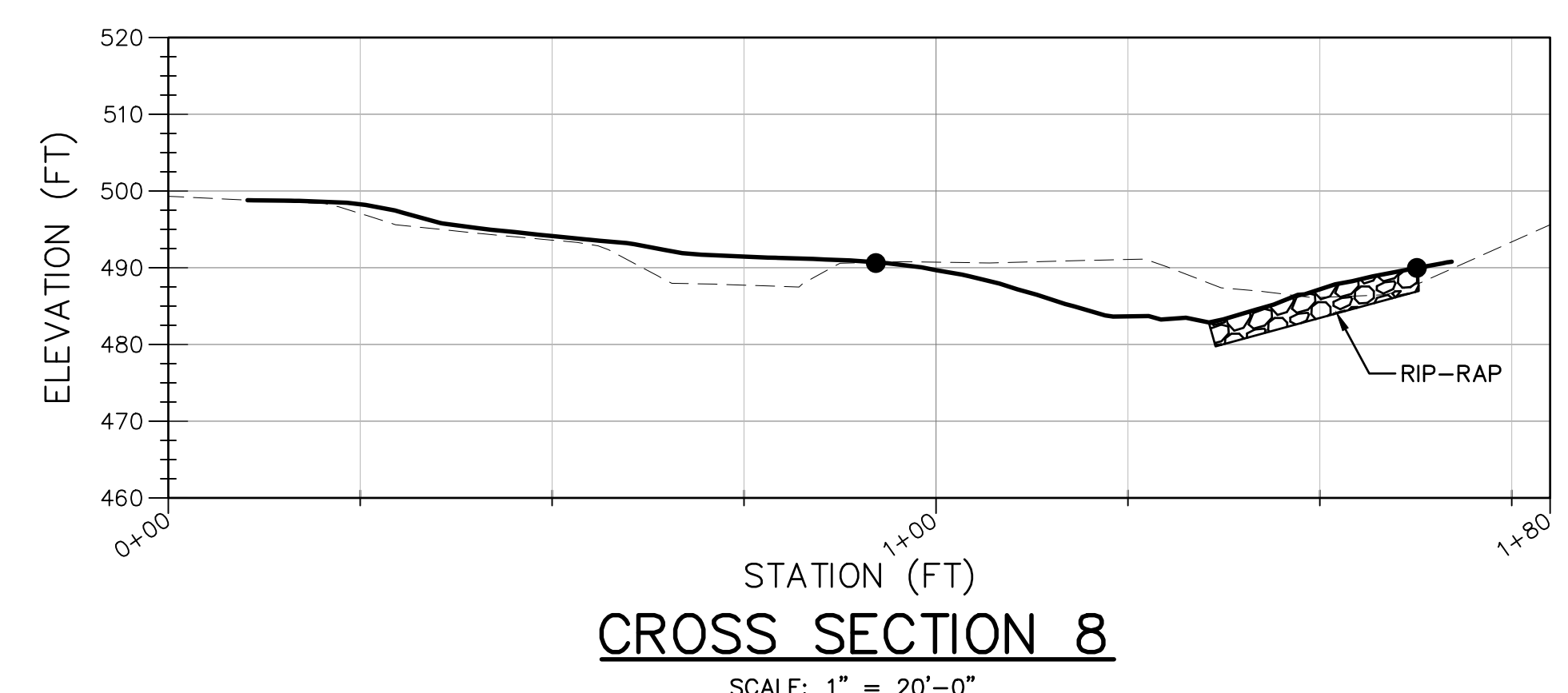
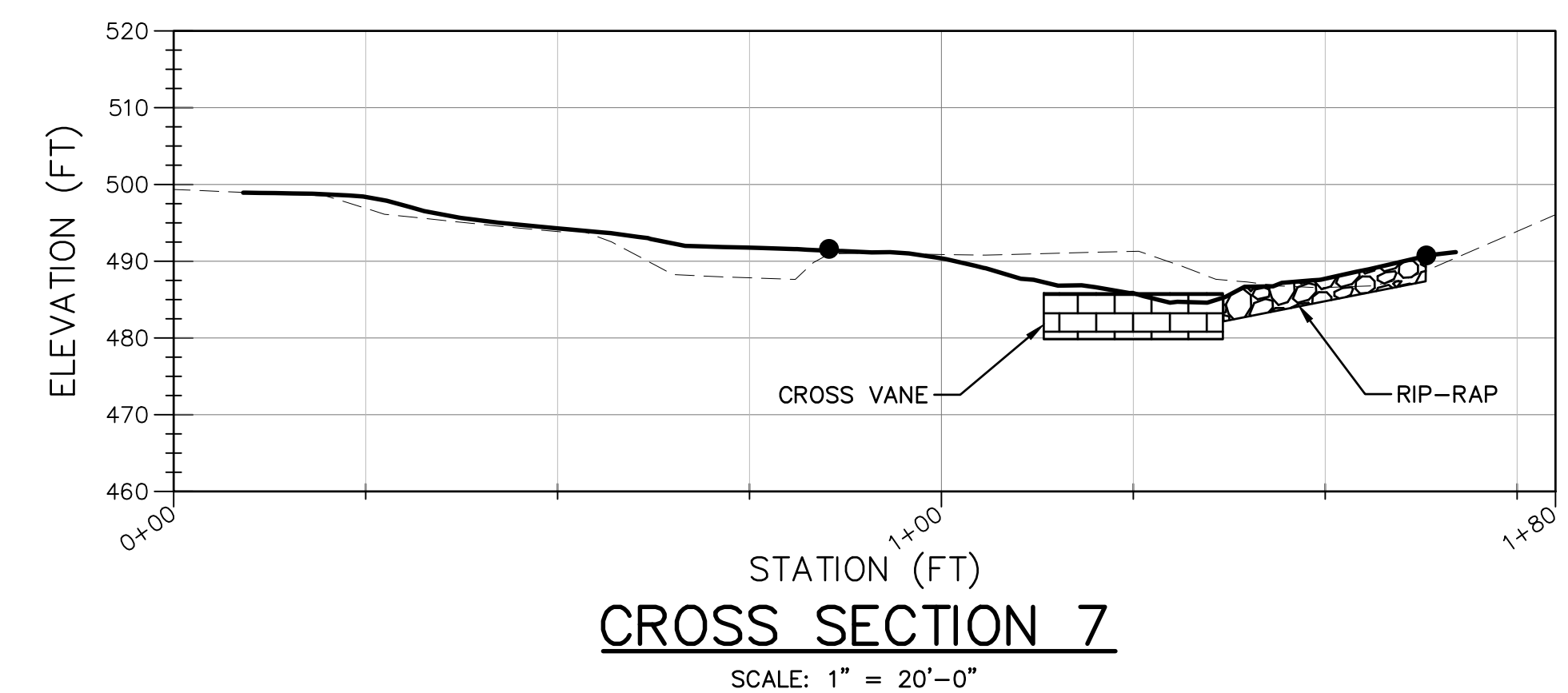
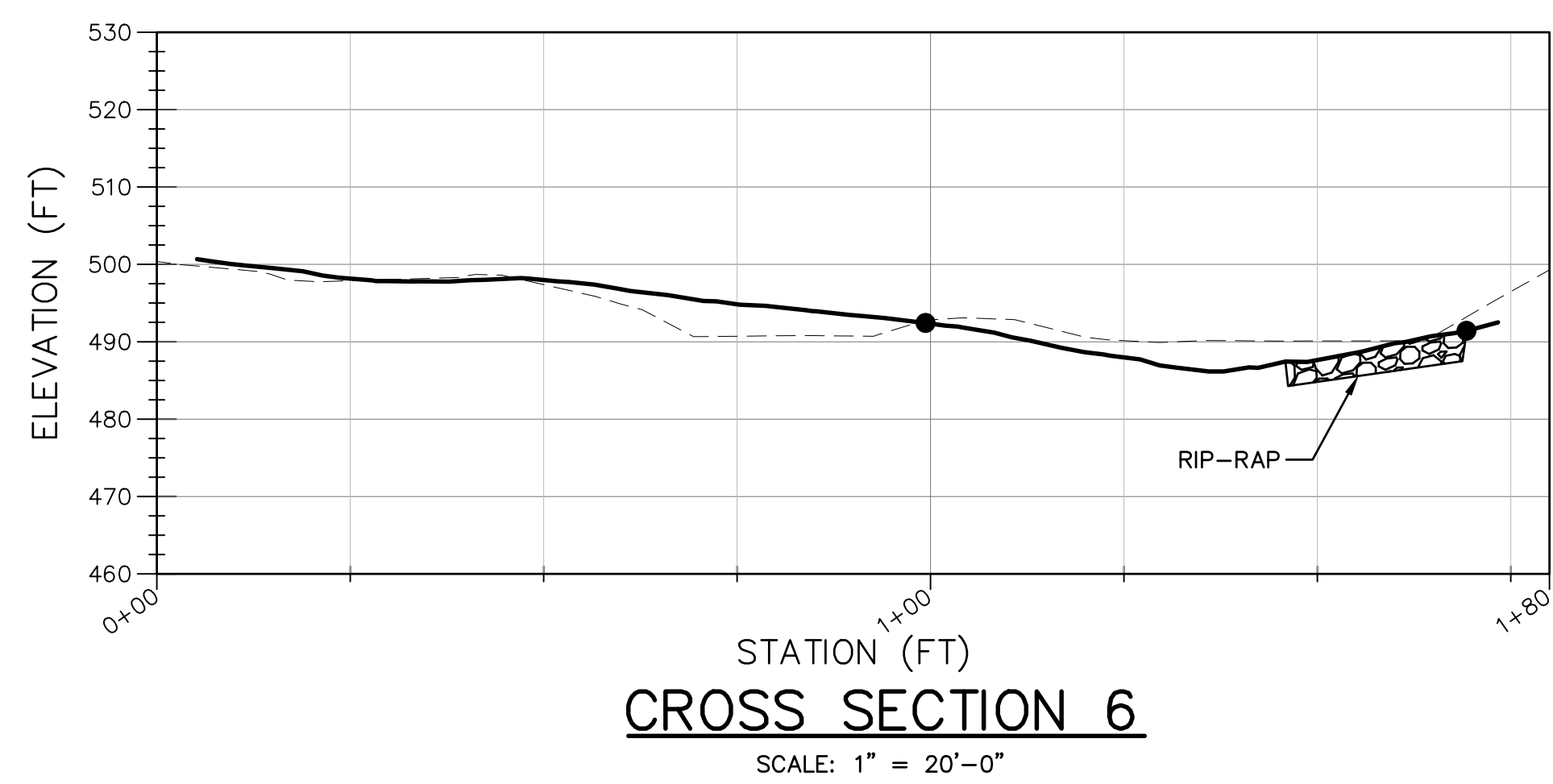
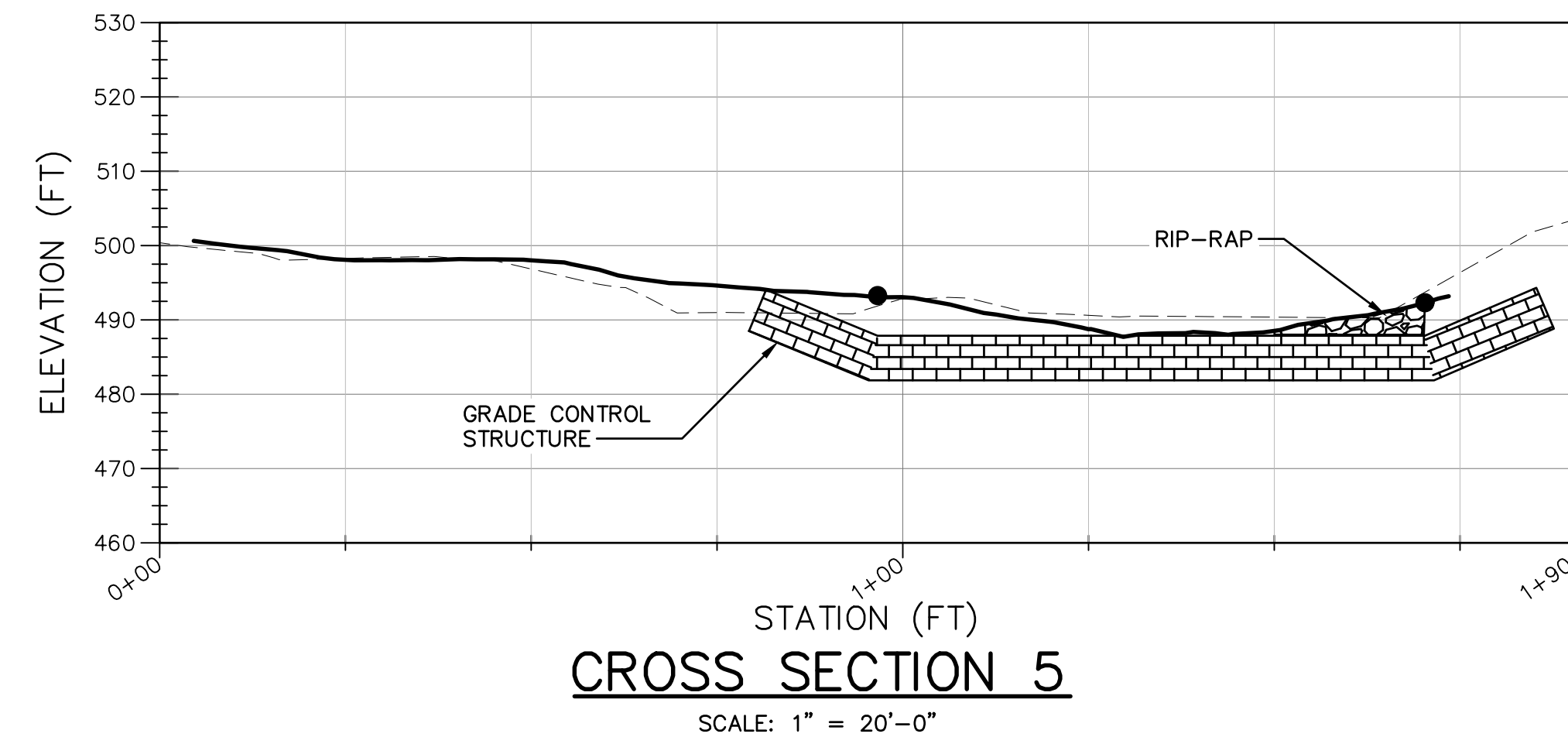
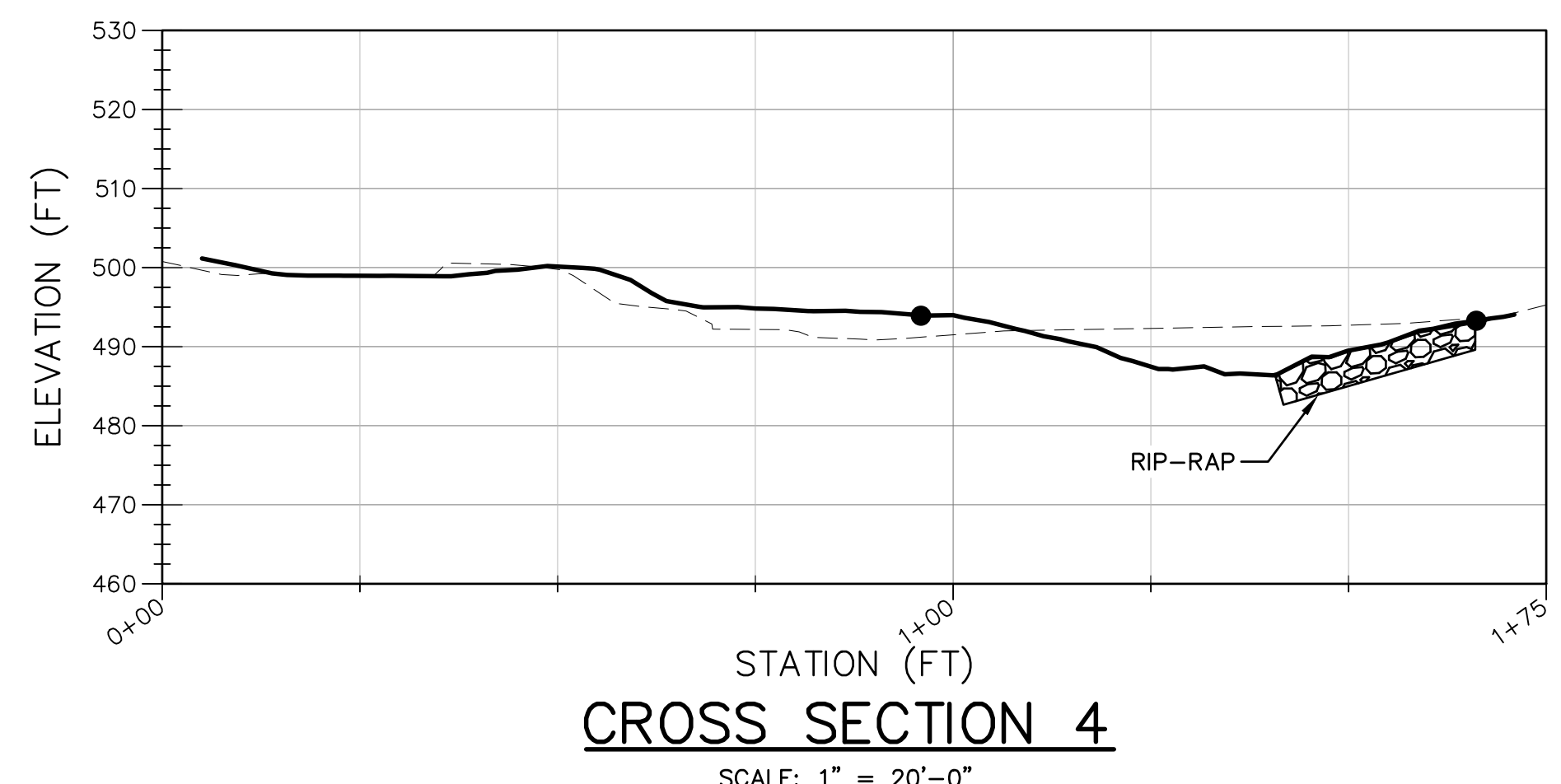
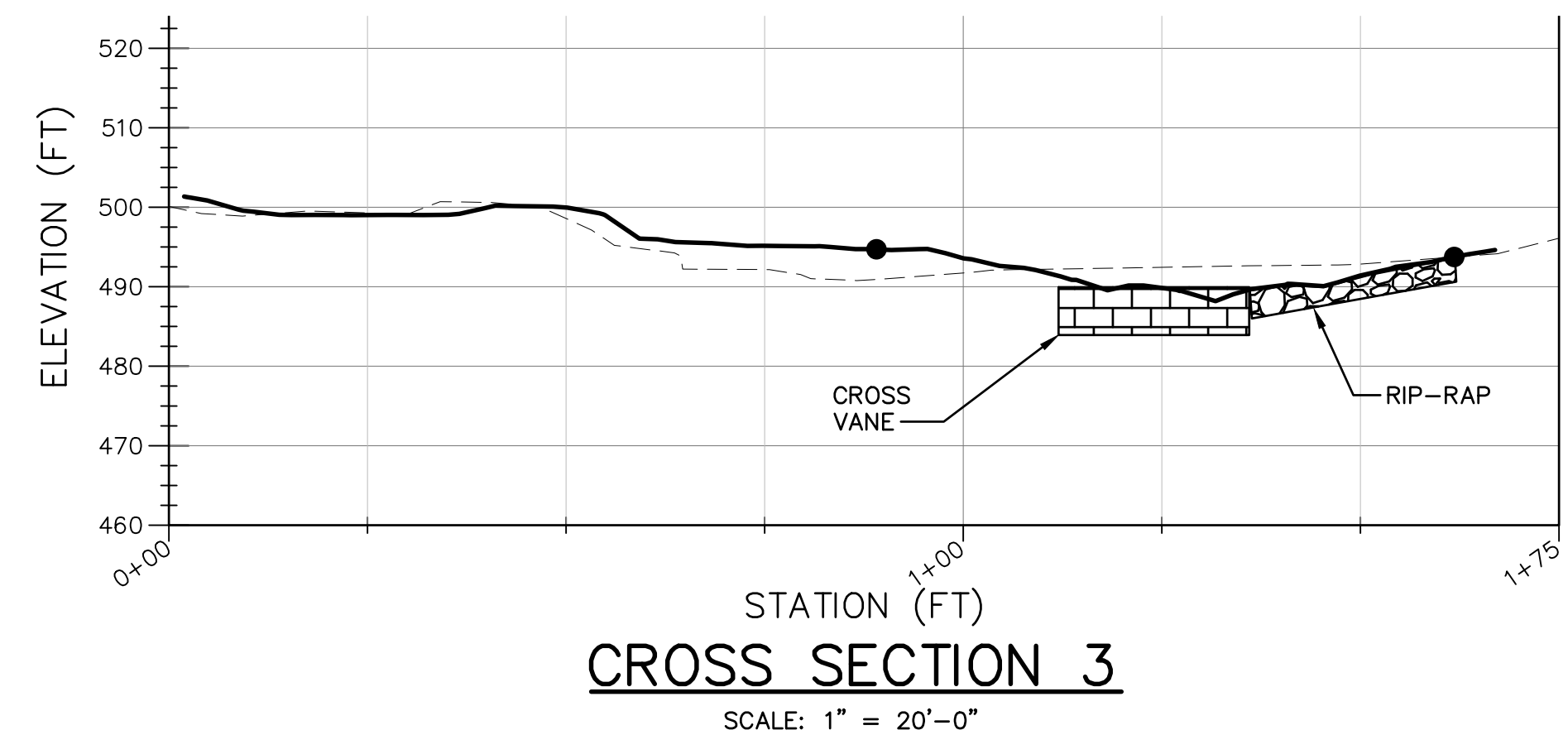
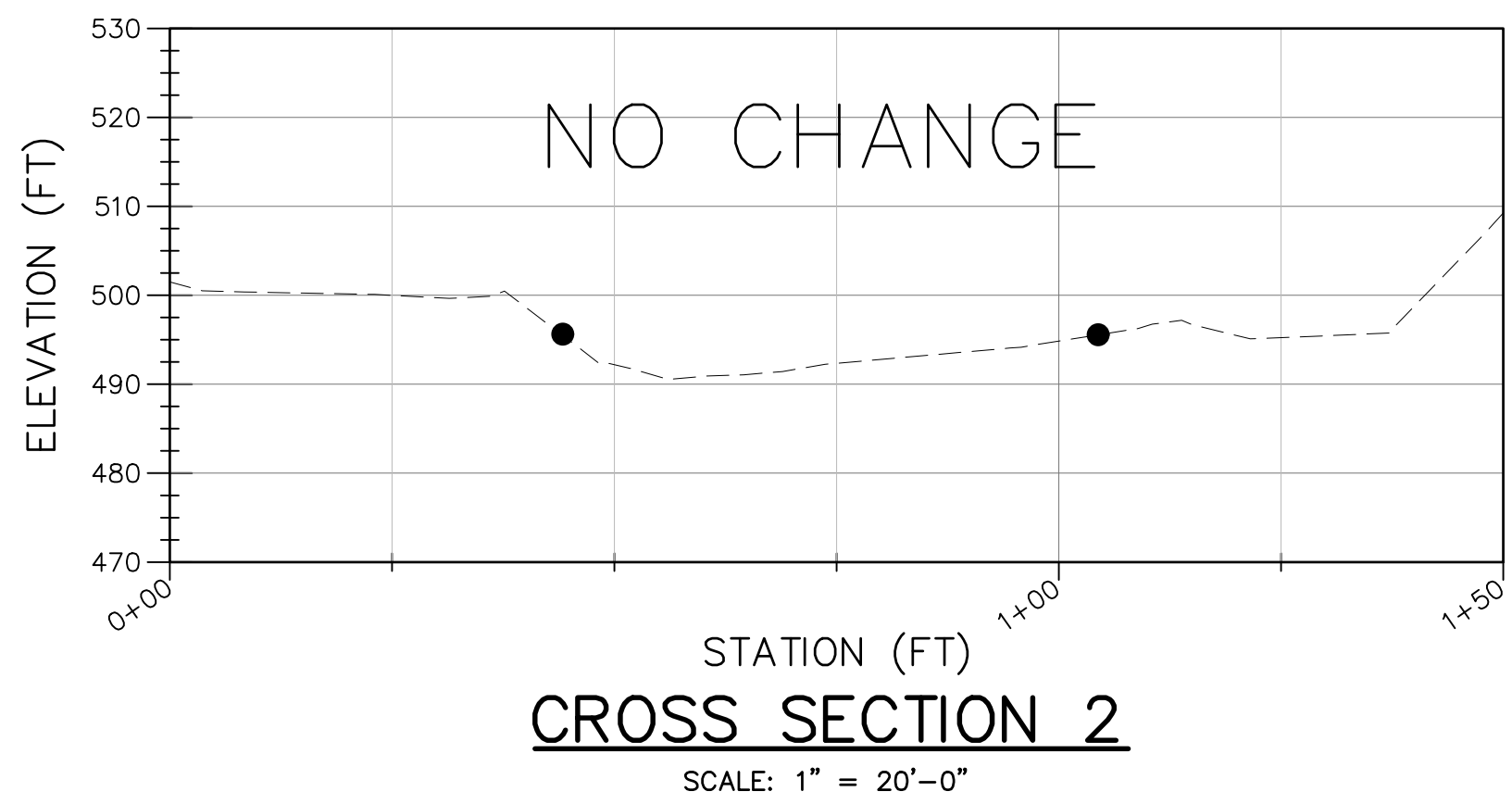
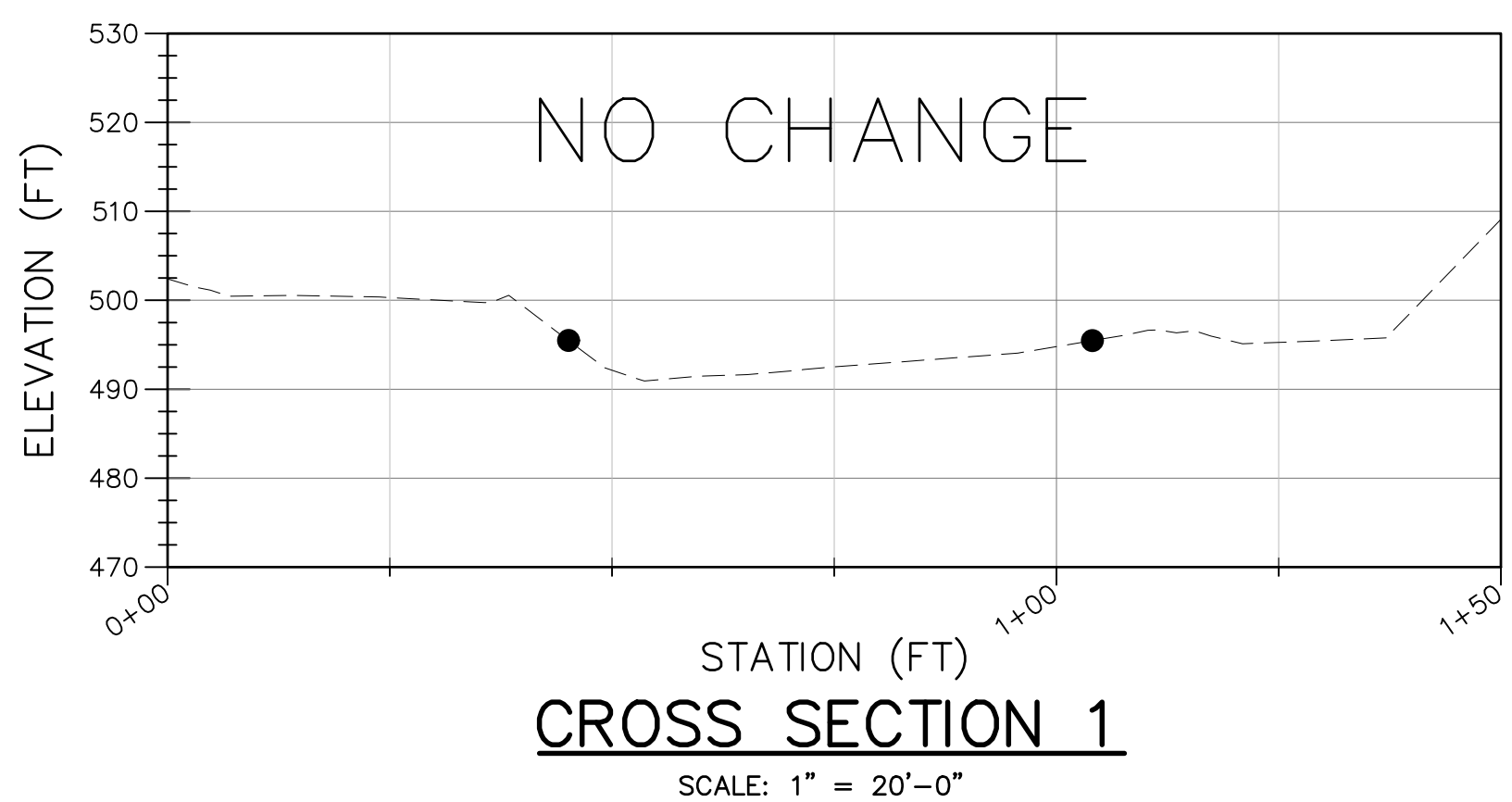
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Checked by: DHE Drawn by: WBG Designed by: ANE In Charge of: RAM Last Saved: 10/7/2019

LEGEND

EXISTING GRADE

PROPOSED GRADE

TOP OF BANK



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION".

REVISIONS

VILLAGE OF ELLENVILLE & TOWN OF WAWARISING
STREAM RESTORATION PROJECT

SITE 1 CROSS SECTIONS
PROPOSED CONDITIONS (1 of 3)

TOWN OF WAWARISING
ULSTER COUNTY, NEW YORK

Barton & Loguidice

DRAFT

Date
DECEMBER 2019

Scale
AS SHOWN

Sheet Number
C-113

Project Number
924.068.002

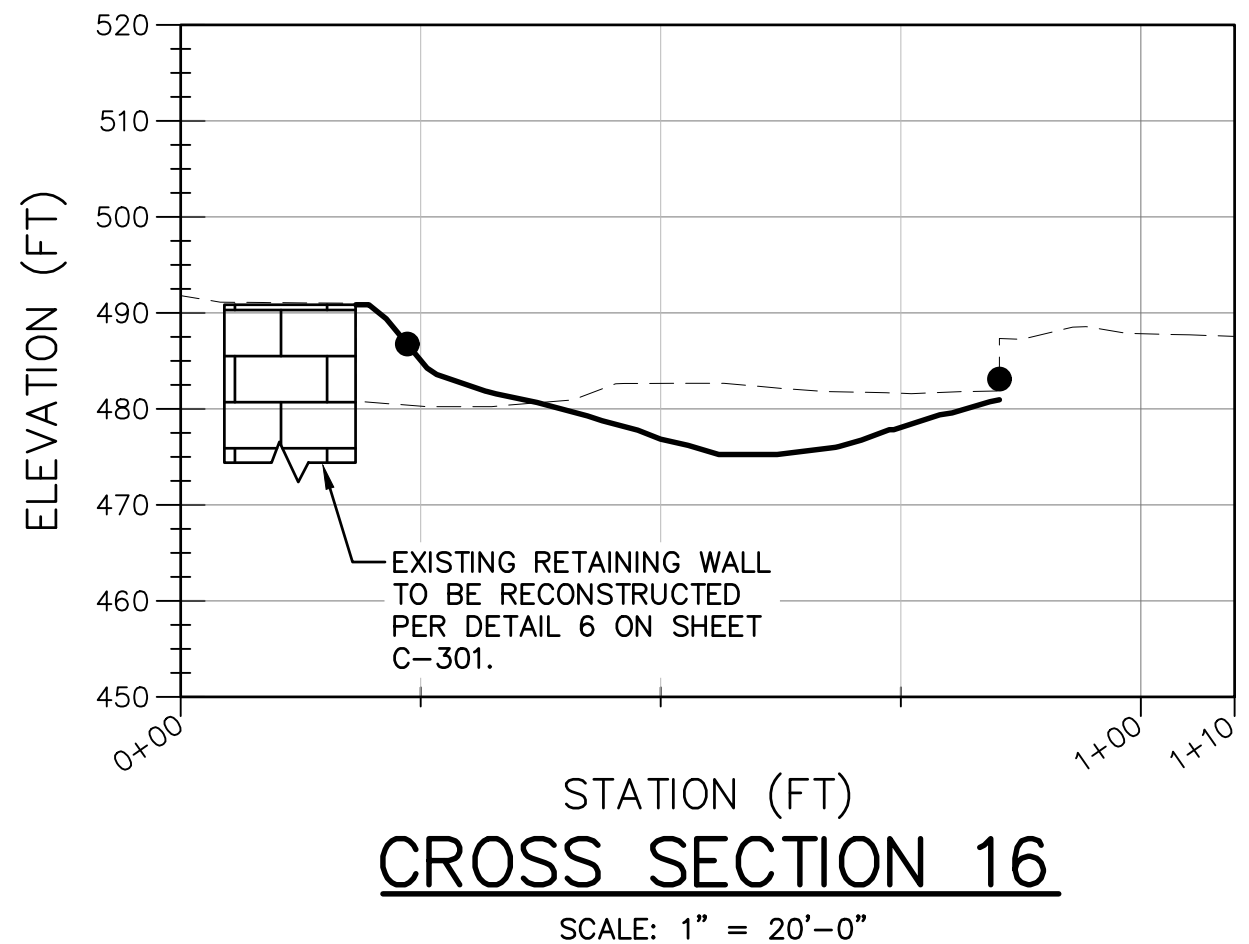
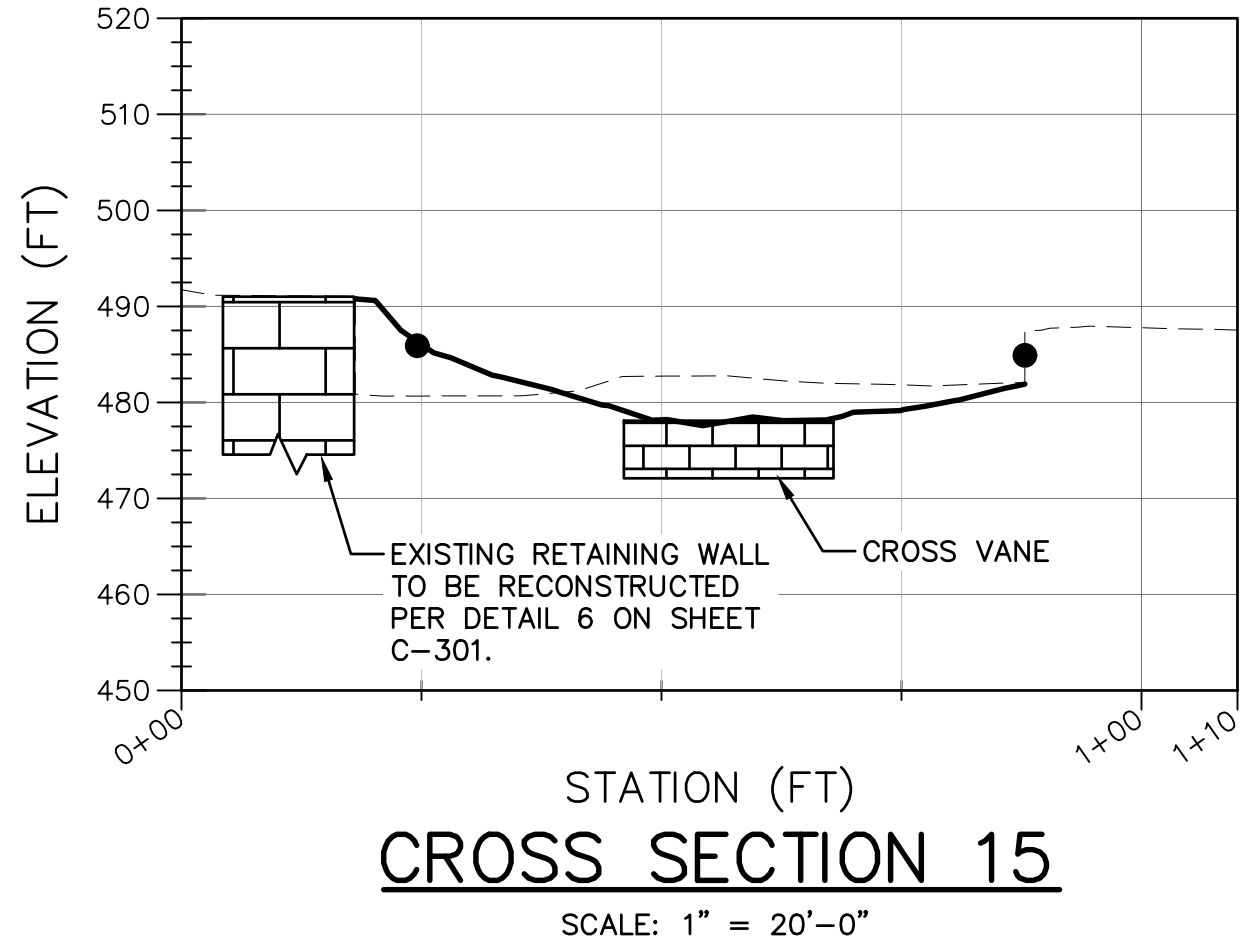
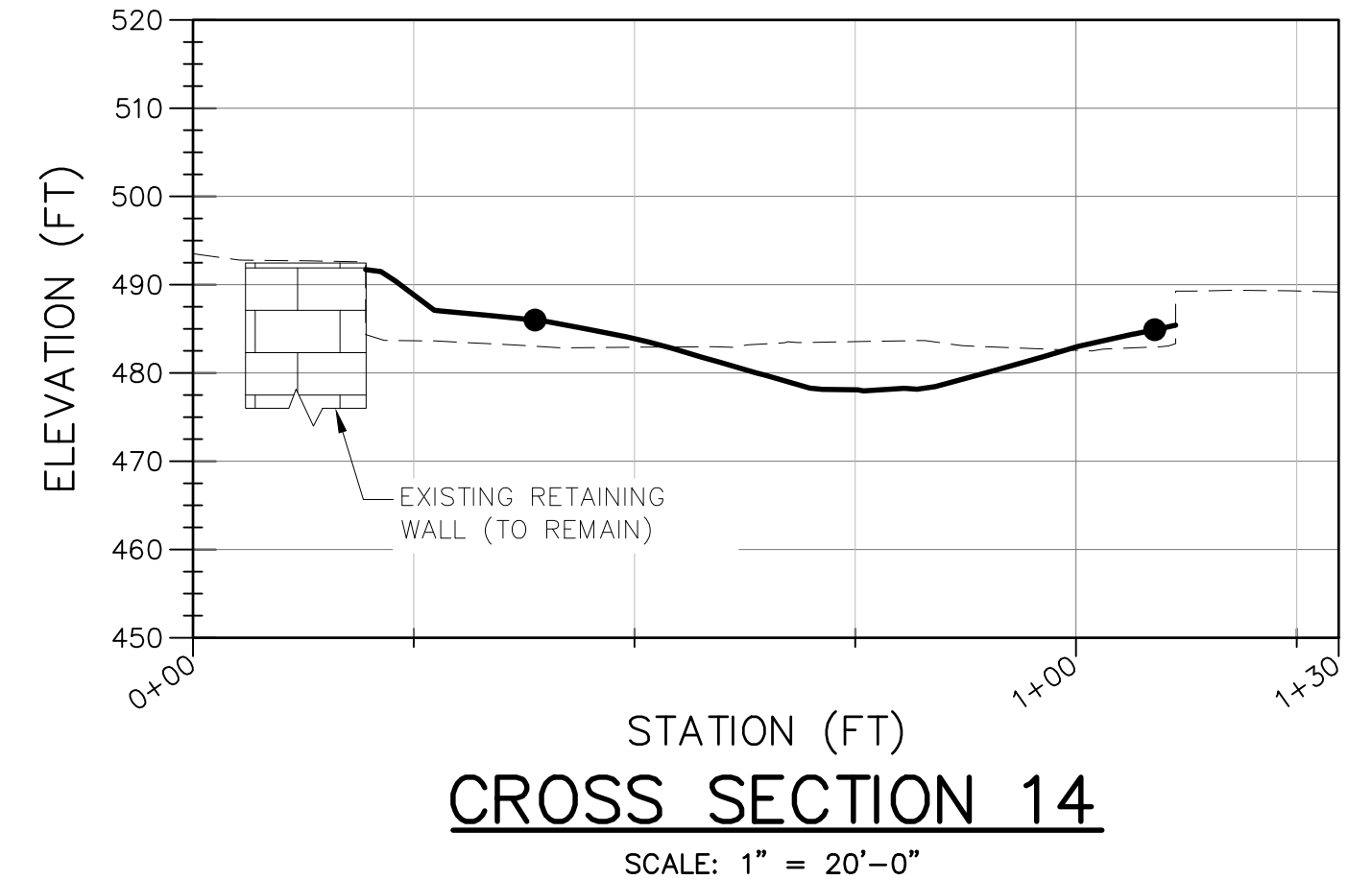
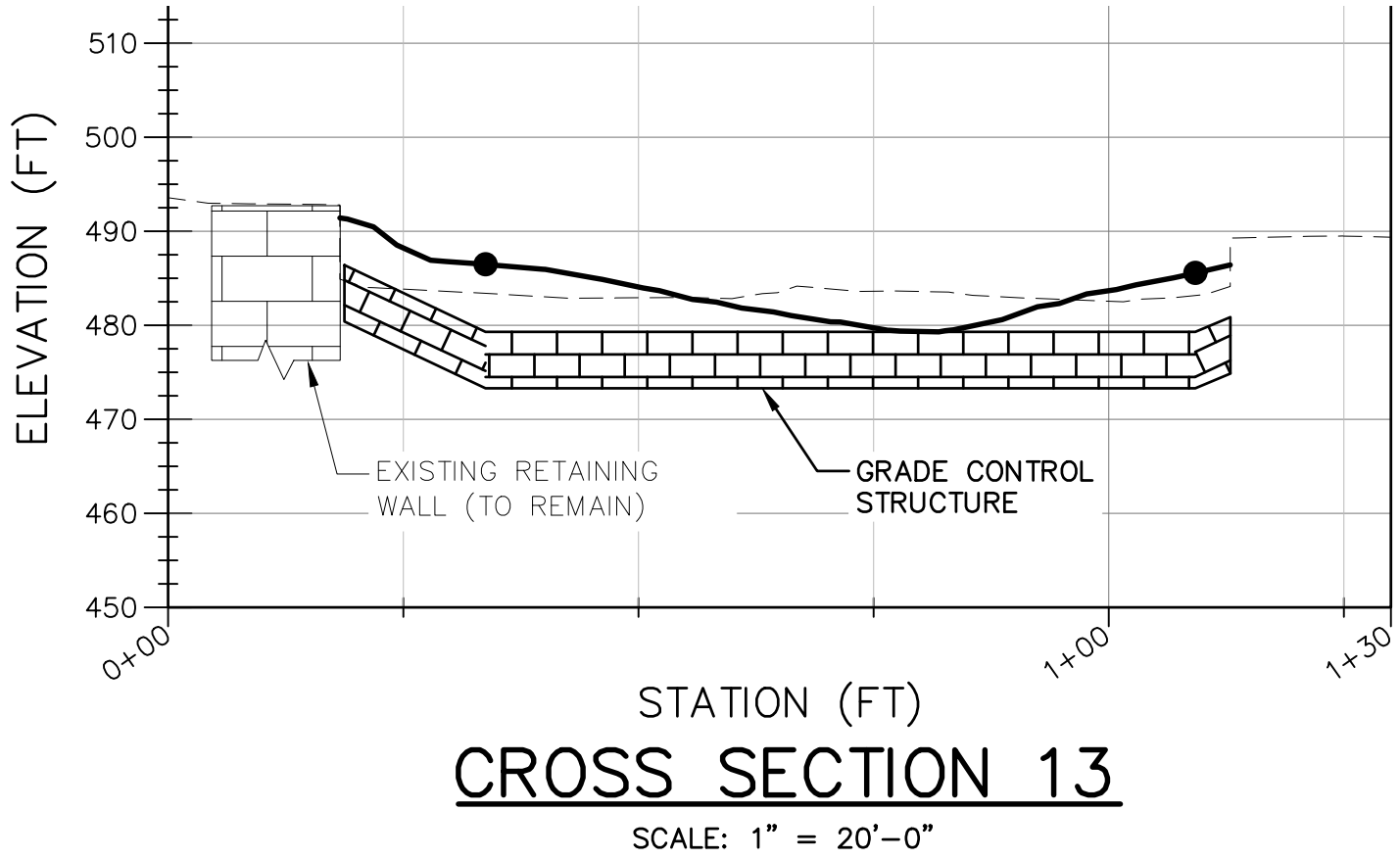
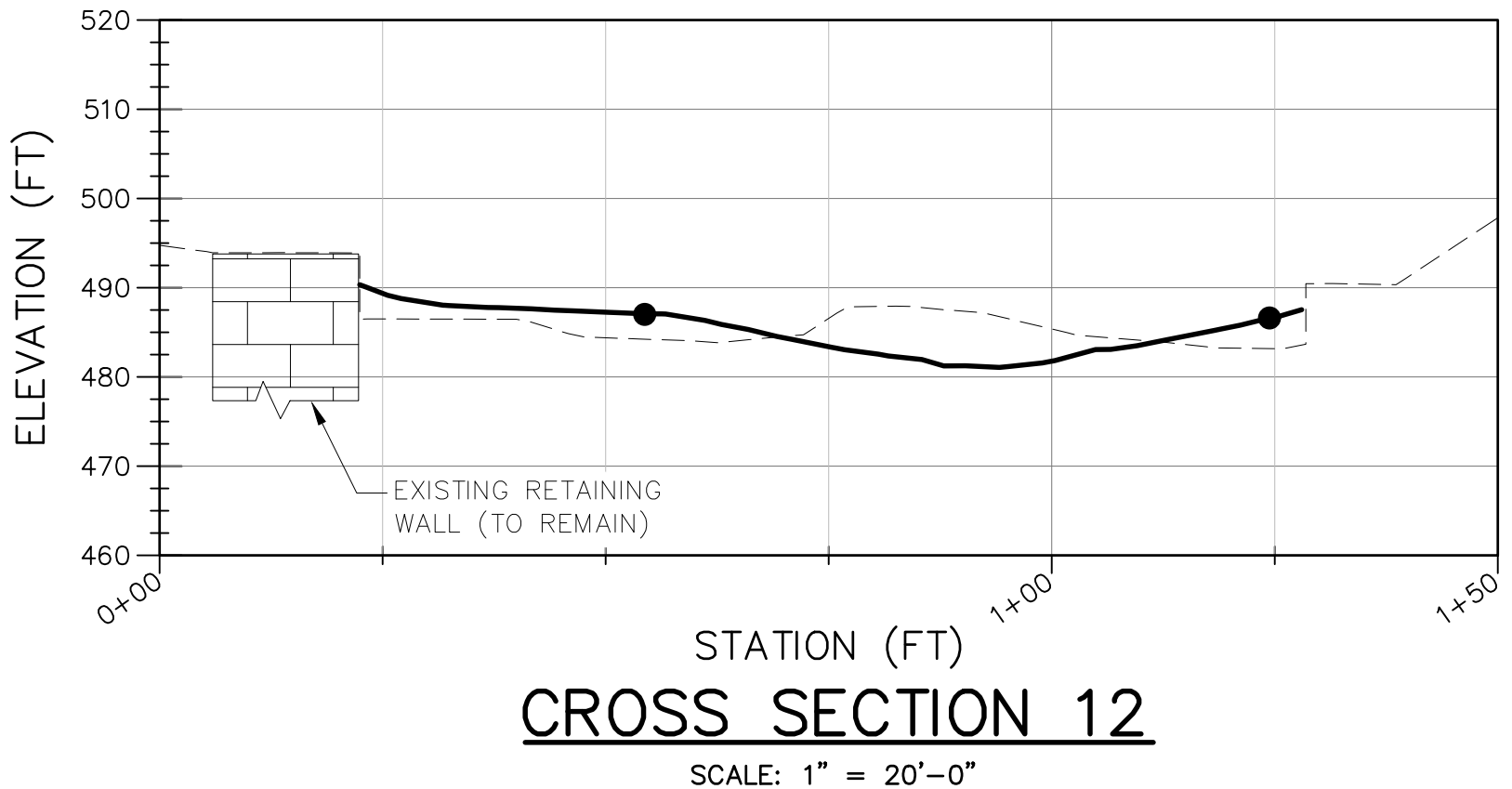
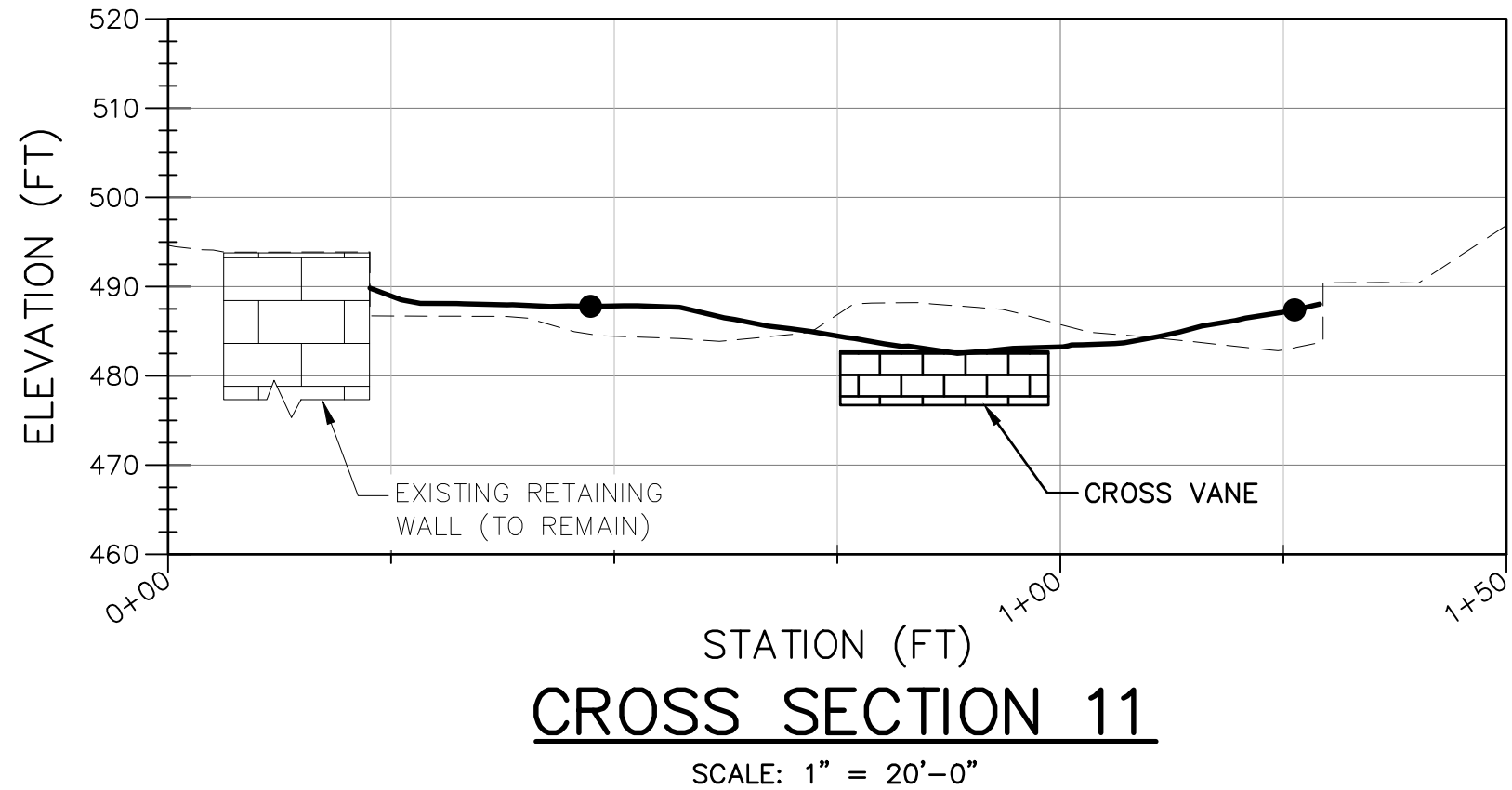
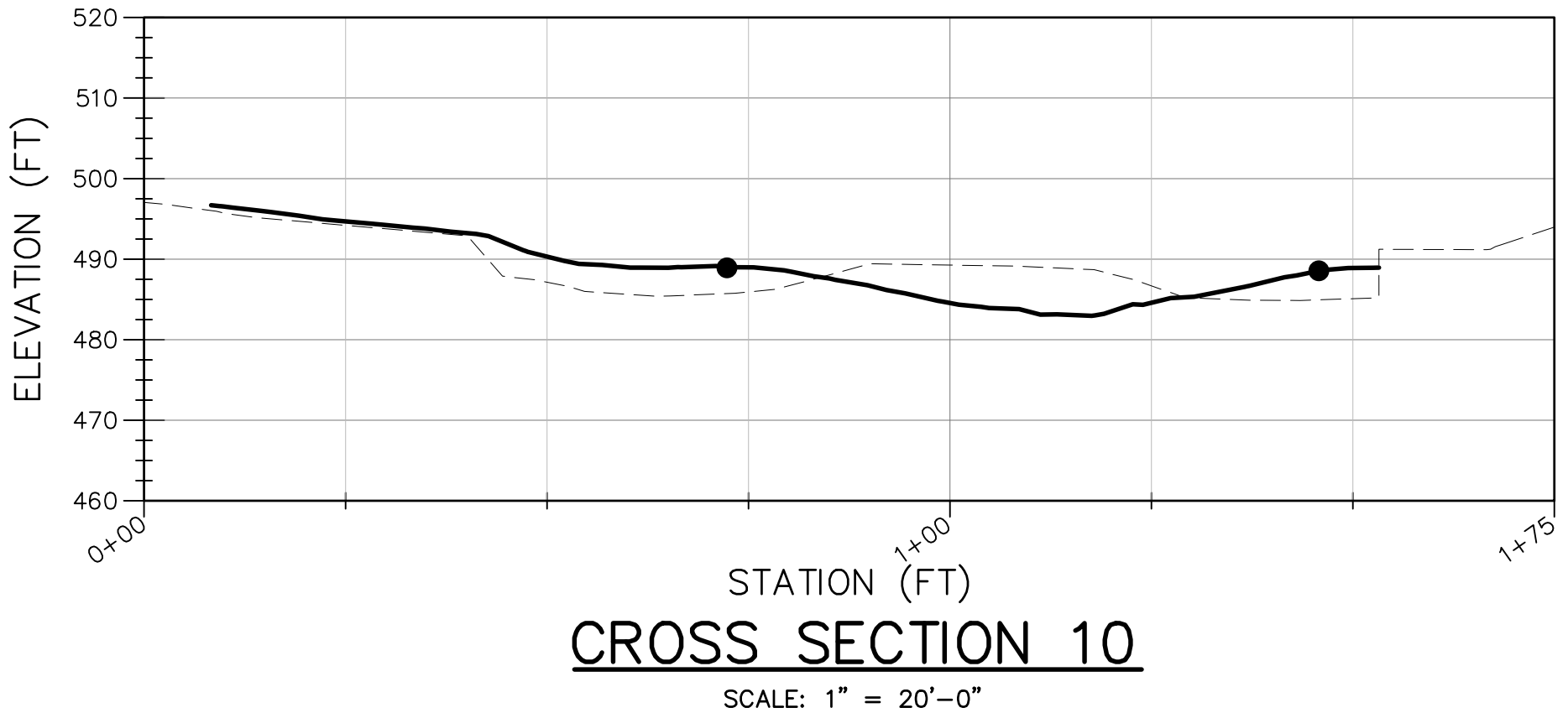
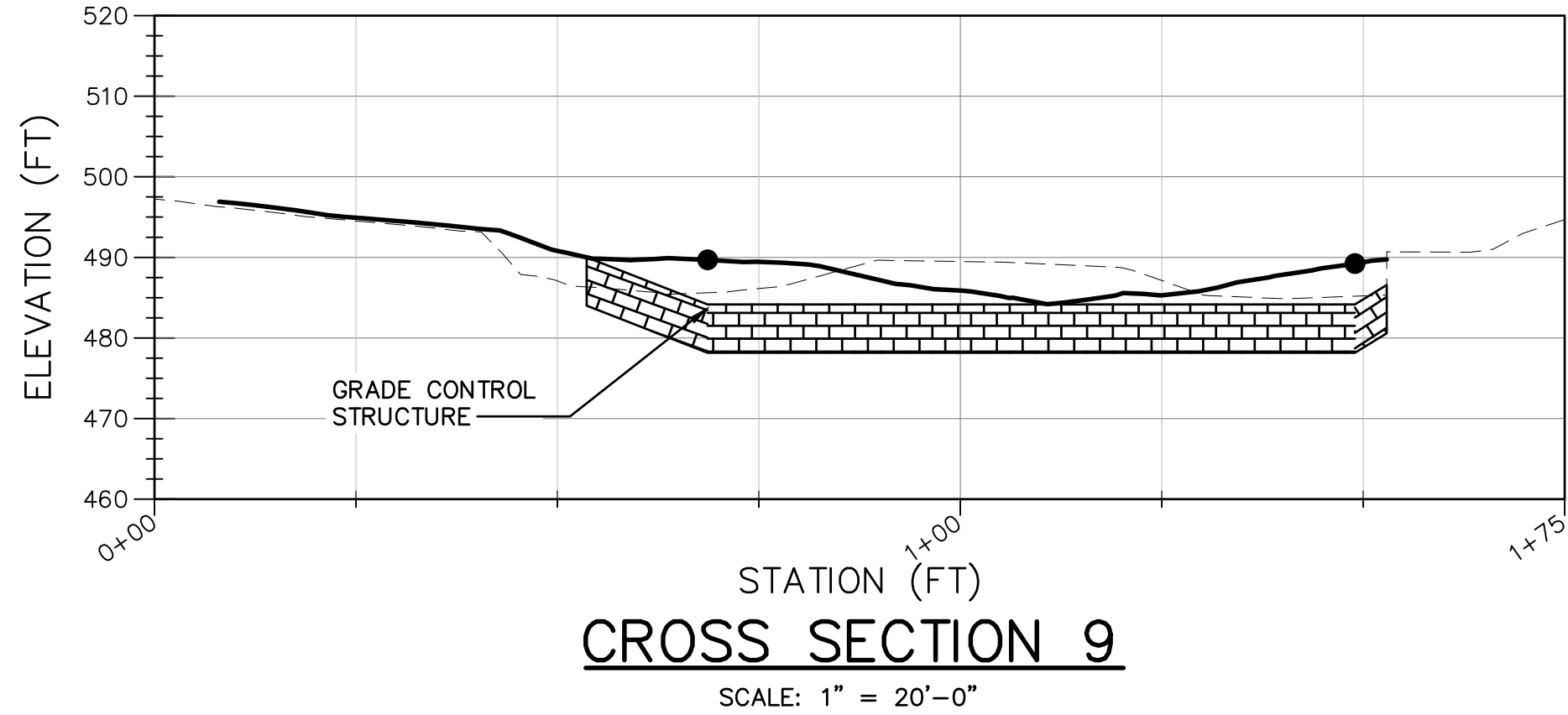
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Checked by: DHE Drawn by: WEG Designed by: ANE In Charge of: RAM Last Saved: 10/7/2019

LEGEND

----- EXISTING GRADE

———— PROPOSED GRADE

● TOP OF BANK



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION".

REVISIONS

VILLAGE OF ELLENVILLE & TOWN OF WAWARISING
STREAM RESTORATION PROJECT
SITE 1 CROSS SECTIONS
PROPOSED CONDITIONS (2 OF 3)
TOWN OF WAWARISING
ULSTER COUNTY, NEW YORK

**Barton
&Loguidice**

DRAFT

Date
DECEMBER 2019

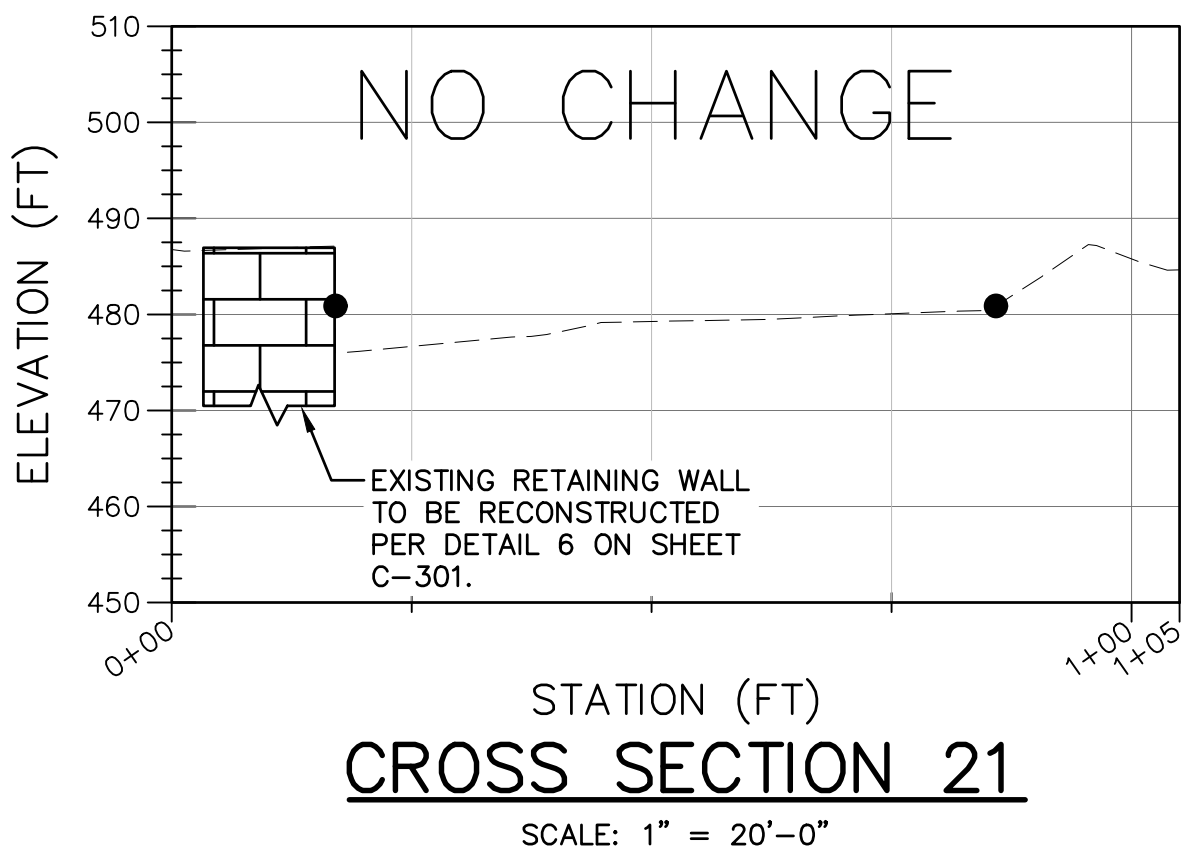
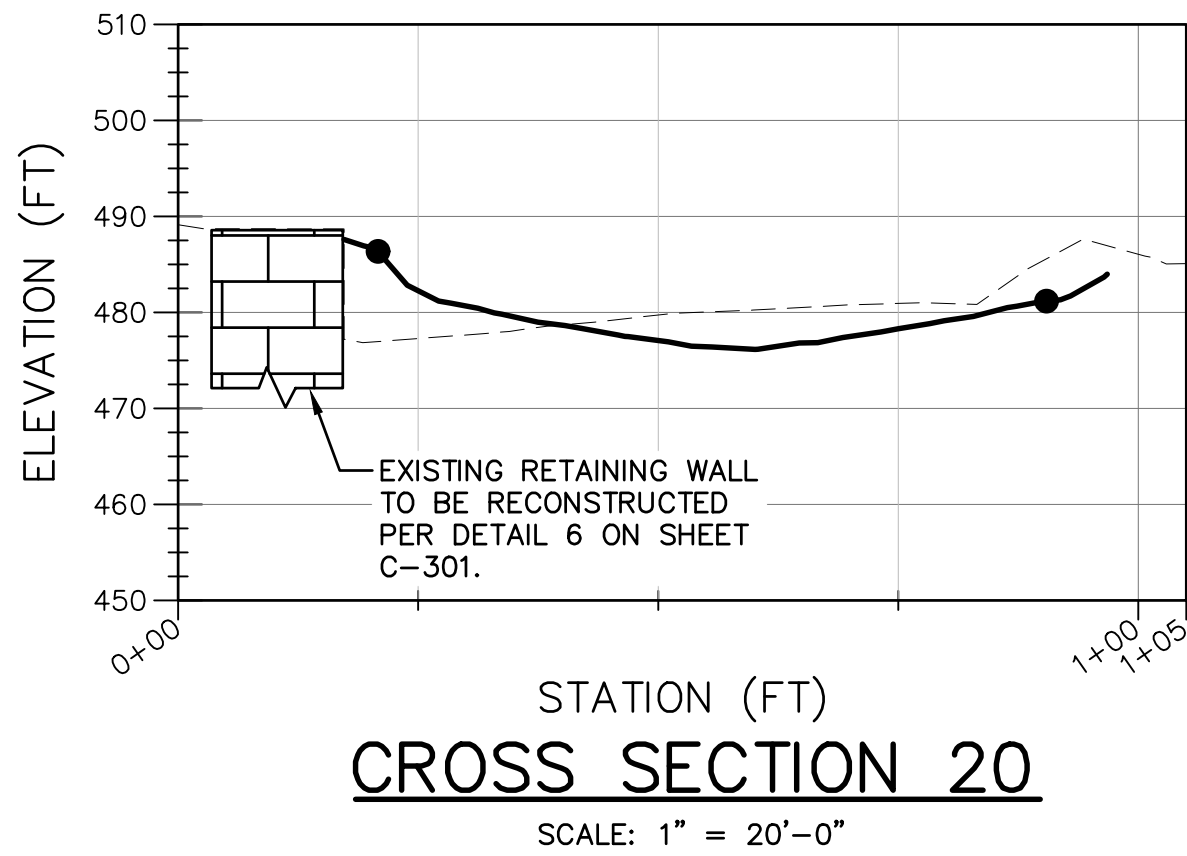
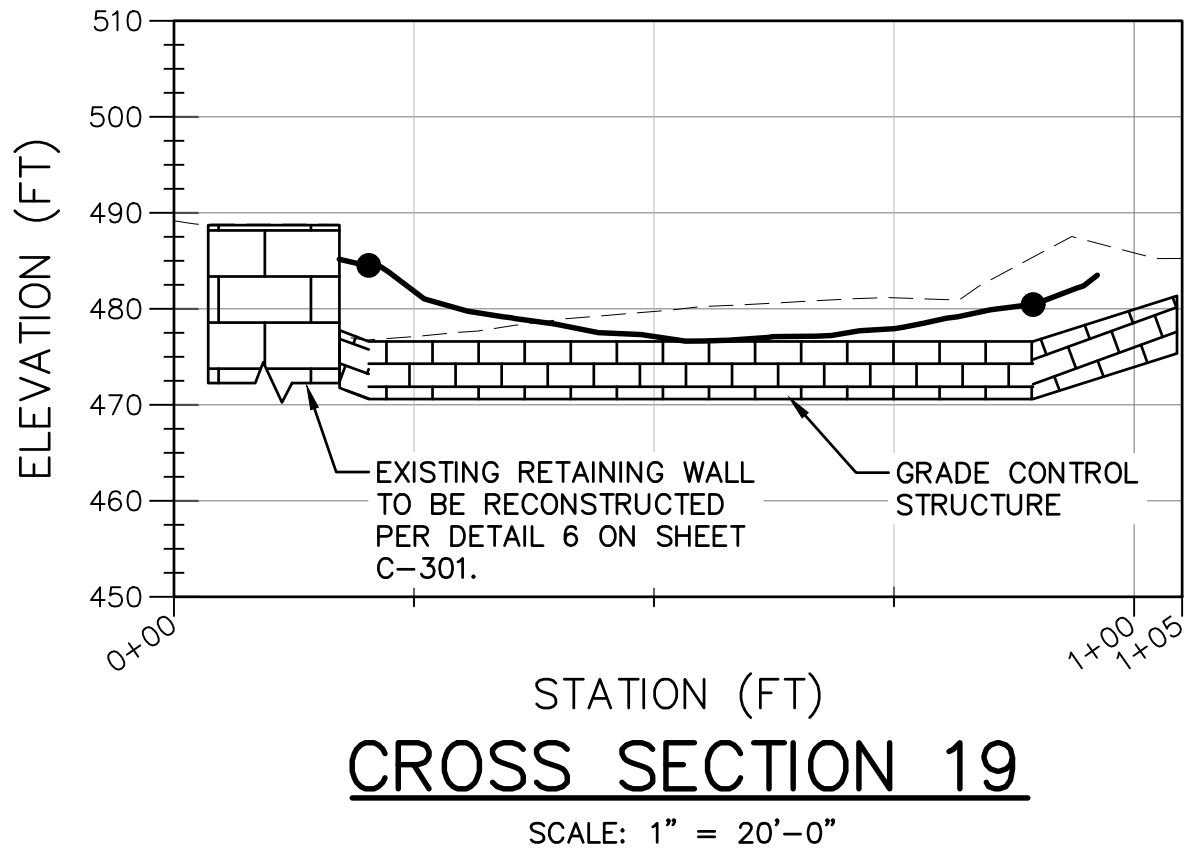
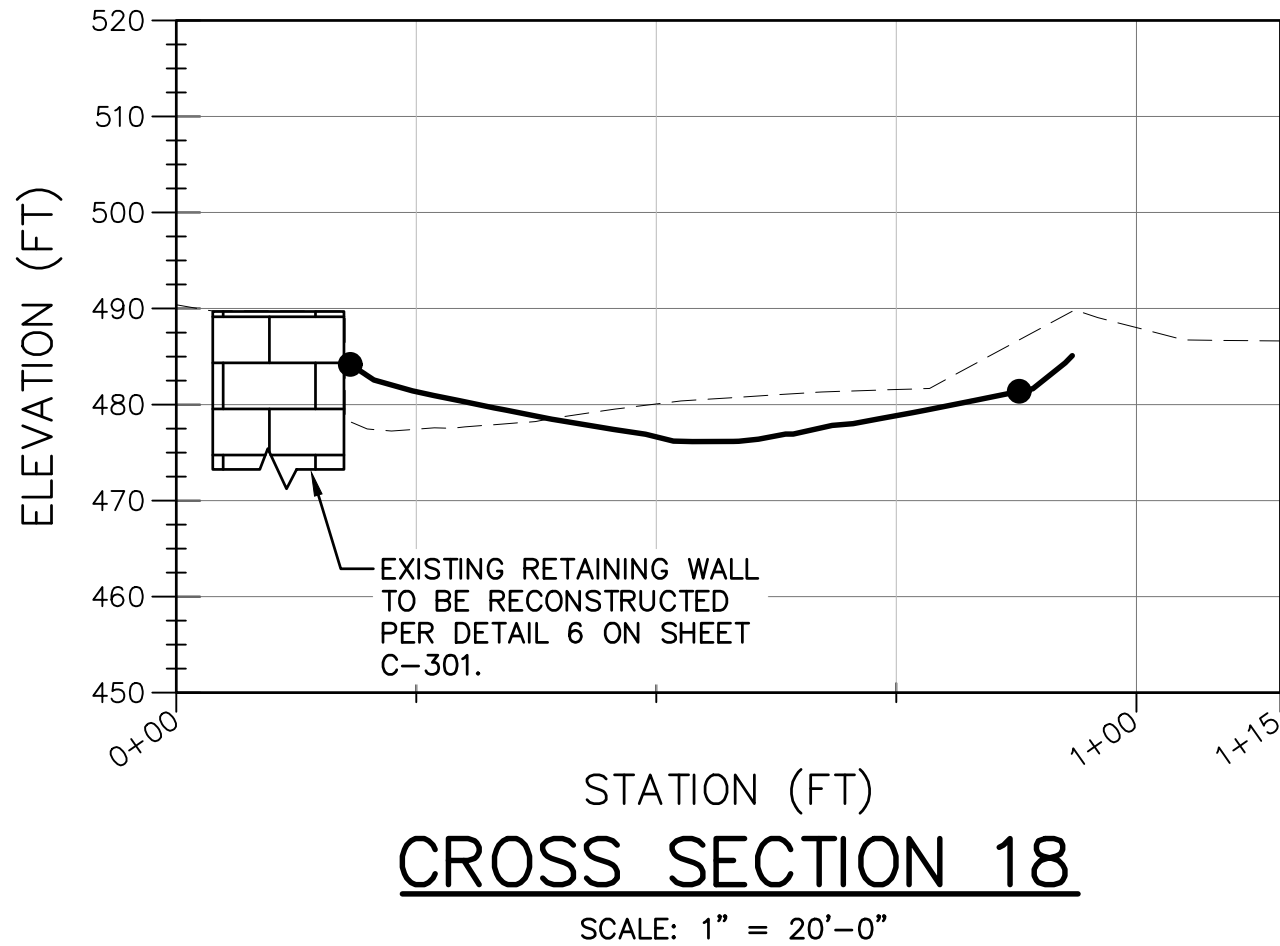
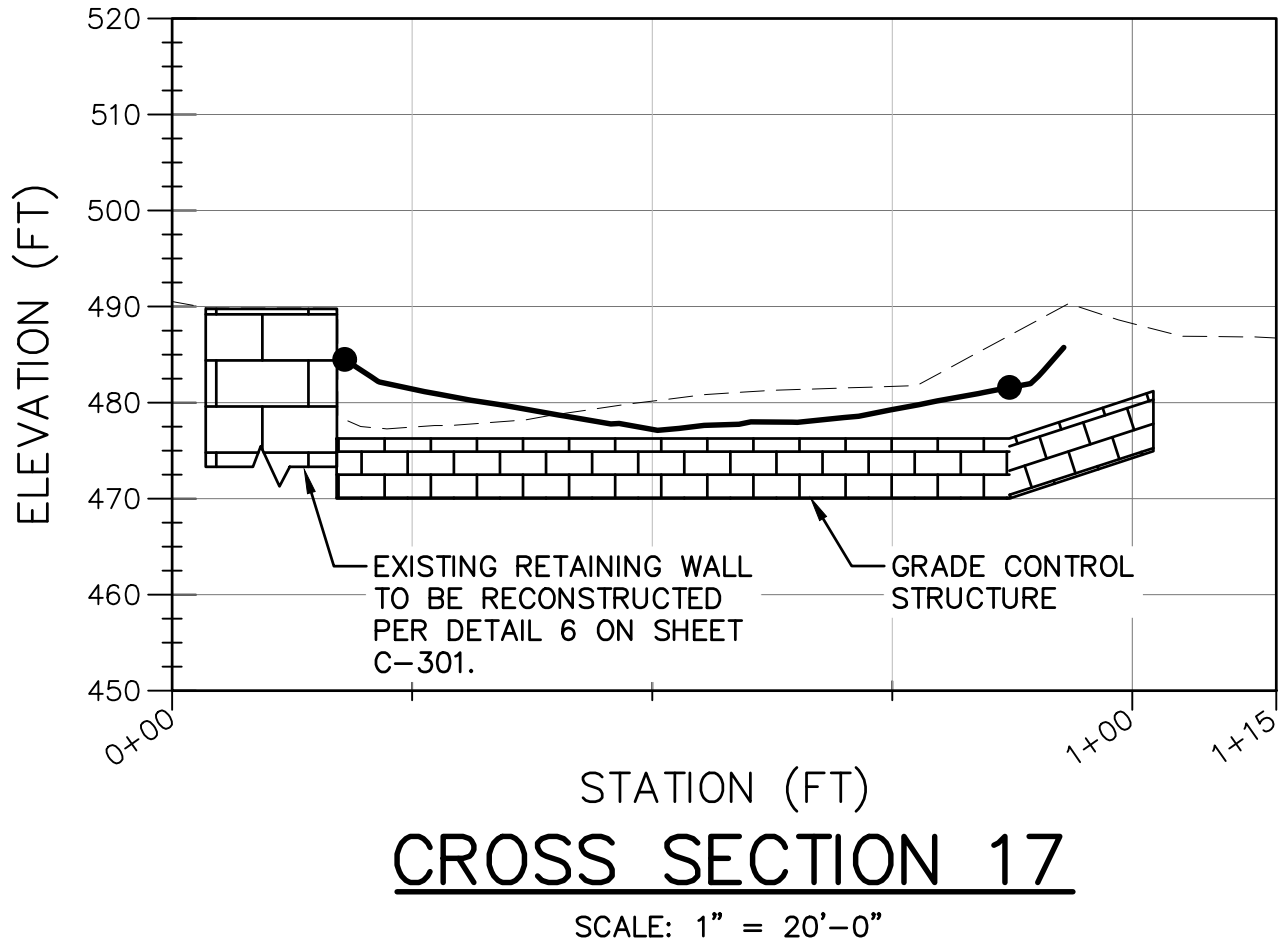
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Sheet Number
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Project Number
924.068.002

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File Name: 924.068.002-Site1_C113-C115-Cross Sections.dwg Project No.: 924.068.002 Project Name: Ellenville Stream Restoration Phase 2&3
Checked by: DHE Drawn by: WEG Designed by: ANE In Charge of: RAM Last Saved: 10/1/2019

- LEGEND**
- EXISTING GRADE
 - PROPOSED GRADE
 - TOP OF BANK



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REVISIONS

VILLAGE OF ELLENVILLE & TOWN OF WAWARSING
STREAM RESTORATION PROJECT
SITE 1 CROSS SECTIONS
PROPOSED CONDITIONS (3 OF 3)
TOWN OF WAWARSING
ULSTER COUNTY, NEW YORK

**Barton
&Loguidice**

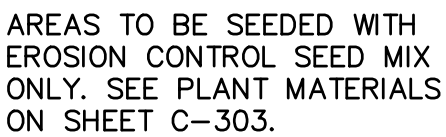
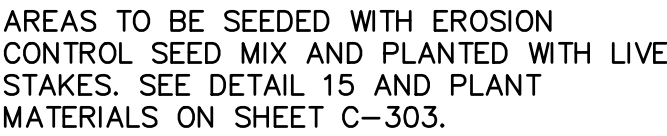
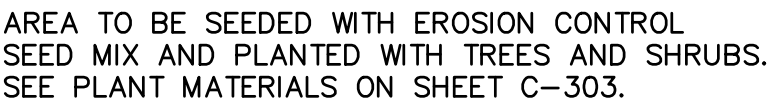
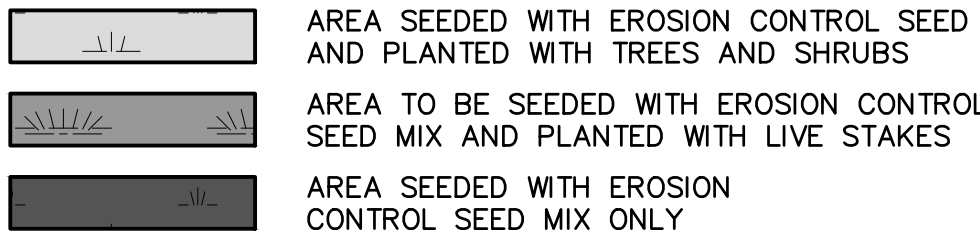
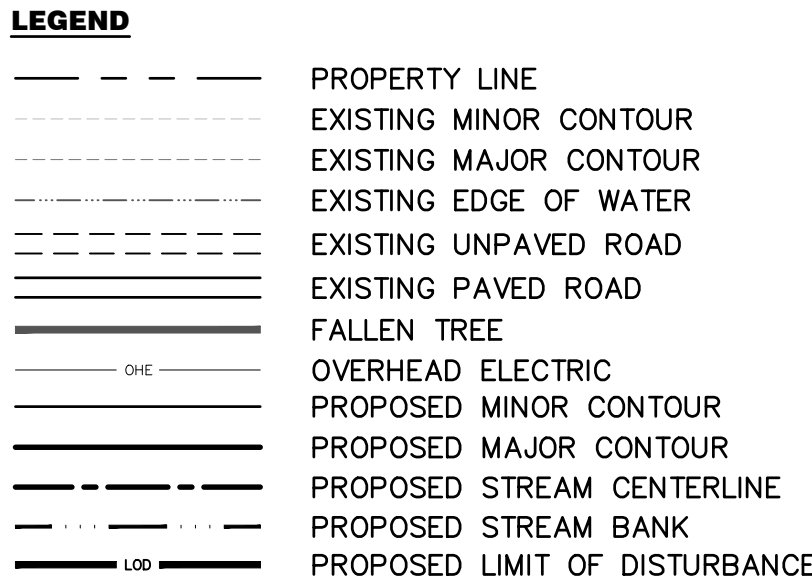
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Date
DECEMBER 2019

Scale
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Sheet Number
C-115

Project Number
924.068.002



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IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED. THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION".

REVISIONS	

TOWN OF WAWARISING

SITE 1

PLANTING PLAN

VILLAGE OF ELLENVILLE & TOWN OF WAWARISING
STREAM RESTORATION PROJECT

ULSTER COUNTY, NEW YORK

**Barton
& Loguidice**

DRAFT

Date _____

Scale
AS SHOWN

Sheet Number

C-117

Project Number

924.068.002

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LEGEND

- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING EDGE OF WATER
- EXISTING UNPAVED ROAD
- EXISTING PAVED ROAD
- PROPERTY BOUNDARY
- EXISTING FENCE
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- STREAM BARB
- ROCKS
- GEOLOCATION MARKER
- CROSS VANE
- PROPOSED REVETMENT WALL
- EXISTING REVETMENT WALL
- PROPOSED TEMPORARY ACCESSWAY

APPROXIMATE STREAM PRACTICE LAYOUT		
POINT	NORTHING	EASTING
SB-1	1,053,271.71	504,022.52
SB-2	1,053,290.96	504,090.53
SB-3	1,053,316.12	504,166.83
SB-4	1,053,330.97	504,212.43
SB-5	1,053,340.13	504,257.30
SB-6	1,053,353.16	504,297.78
SB-7	1,053,364.05	504,347.19
W-1	1,053,346.91	504,268.87
W-2	1,053,368.37	504,358.61
CV-1	1,053,348.68	504,664.23
R-1	1,053,264.13	504,046.51
R-2	1,053,306.54	504,194.74
R-3	1,053,328.37	504,272.50
R-4	1,053,352.69	504,391.38

PERMANENT AND TEMPORARY IMPACTS TO WATER RESOURCES	
TOTAL AREA OF DISTURBANCE (SF)	30,334
TOTAL LENGTH OF DISTURBANCE (LF)	788
TOTAL FILL BELOW OHWM (CY)	251
TOTAL CUT BELOW OHWM (CY)	197

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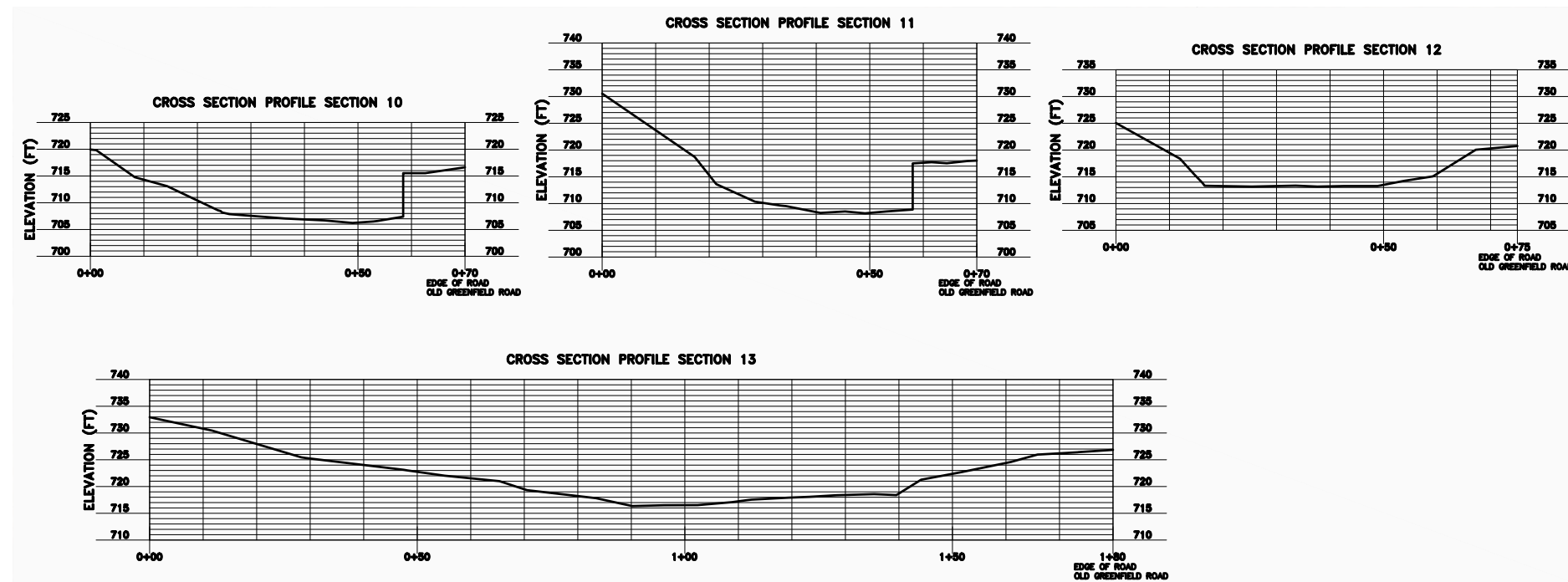
REVISIONS

VILLAGE OF ELLENVILLE & TOWN OF WAWARISING
STREAM RESTORATION PROJECT
SITE 2
STREAM RESTORATION PLAN
TOWN OF WAWARISING
ULSTER COUNTY, NEW YORK

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Date
DECEMBER 2019
Scale
AS SHOWN
Sheet Number
C-121
Project Number
924.068.002



PERMANENT AND TEMPORARY IMPACTS TO WATER RESOURCES	
TOTAL AREA OF DISTURBANCE (SF)	18,872
TOTAL LENGTH OF DISTURBANCE (LF)	701
TOTAL FILL BELOW OHWM (CY)	135
TOTAL CUT BELOW OHWM (CY)	100



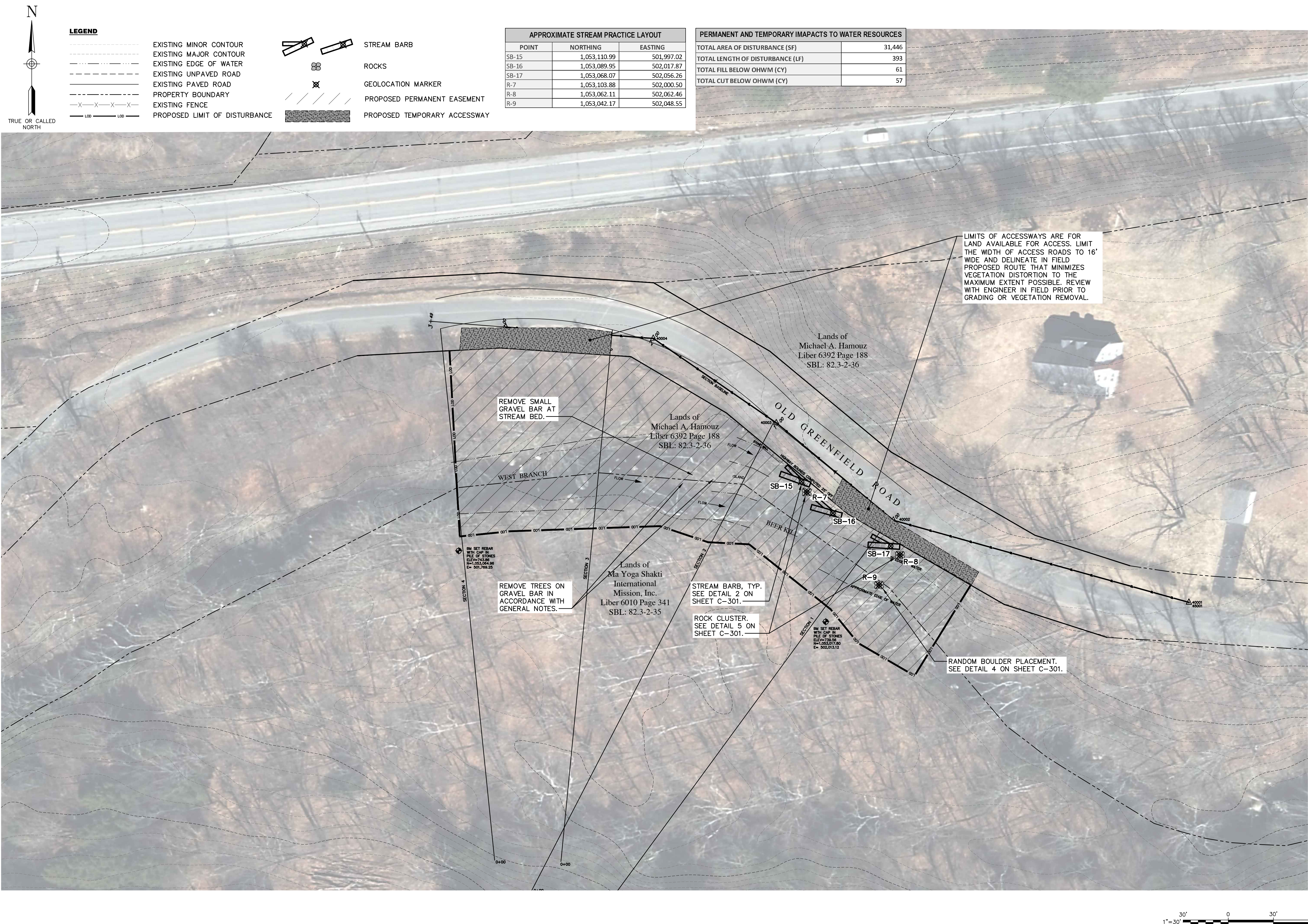
REVISIONS

**Barton
& Loguidice**

DRAFT

Date	DECEMBER 2019
Scale	AS SHOWN
Sheet Number	C-131
Project Number	924.068.002

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LEGEND

- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING EDGE OF WATER
- EXISTING UNPAVED ROAD
- EXISTING PAVED ROAD
- PROPERTY BOUNDARY
- EXISTING FENCE
- PROPOSED LIMIT OF DISTURBANCE

- STREAM BARB
- ROCKS
- GEOLOCATION MARKER
- PROPOSED PERMANENT EASEMENT
- PROPOSED TEMPORARY ACCESSWAY

APPROXIMATE STREAM PRACTICE LAYOUT		
POINT	NORTHING	EASTING
SB-15	1,053,110.99	501,997.02
SB-16	1,053,089.95	502,017.87
SB-17	1,053,068.07	502,056.26
R-7	1,053,103.88	502,000.50
R-8	1,053,062.11	502,062.46
R-9	1,053,042.17	502,048.55

PERMANENT AND TEMPORARY IMPACTS TO WATER RESOURCES	
TOTAL AREA OF DISTURBANCE (SF)	31,446
TOTAL LENGTH OF DISTURBANCE (LF)	393
TOTAL FILL BELOW OHWM (CY)	61
TOTAL CUT BELOW OHWM (CY)	57

LIMITS OF ACCESSWAYS ARE FOR LAND AVAILABLE FOR ACCESS. LIMIT THE WIDTH OF ACCESS ROADS TO 16' WIDE AND DELINEATE IN FIELD PROPOSED ROUTE THAT MINIMIZES VEGETATION DISTORTION TO THE MAXIMUM EXTENT POSSIBLE. REVIEW WITH ENGINEER IN FIELD PRIOR TO GRADING OR VEGETATION REMOVAL.

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION".

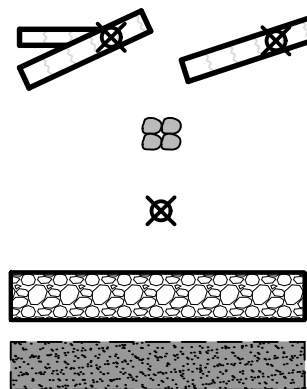
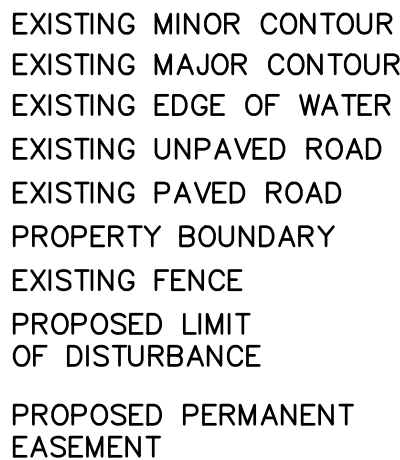
REVISIONS

VILLAGE OF ELLENVILLE & TOWN OF WAWARISING
STREAM RESTORATION PROJECT
SITE 4
STREAM RESTORATION PLAN
TOWN OF WAWARISING
ULSTER COUNTY, NEW YORK

Barton
&Loguidice

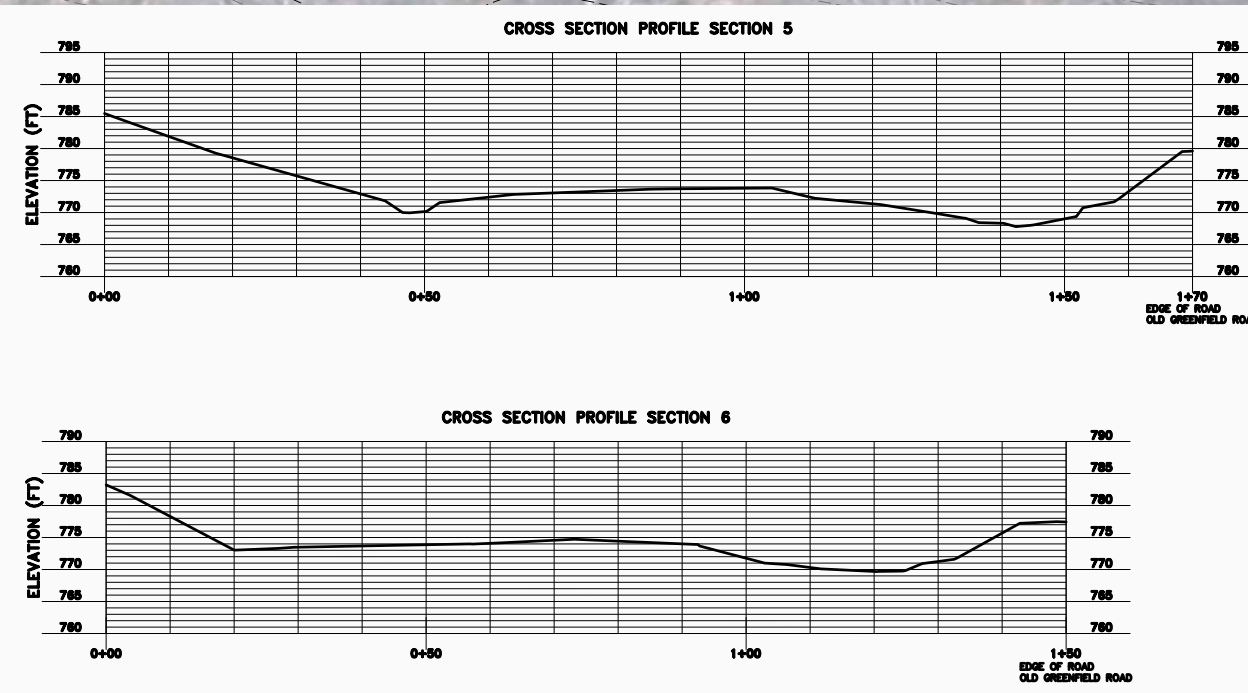
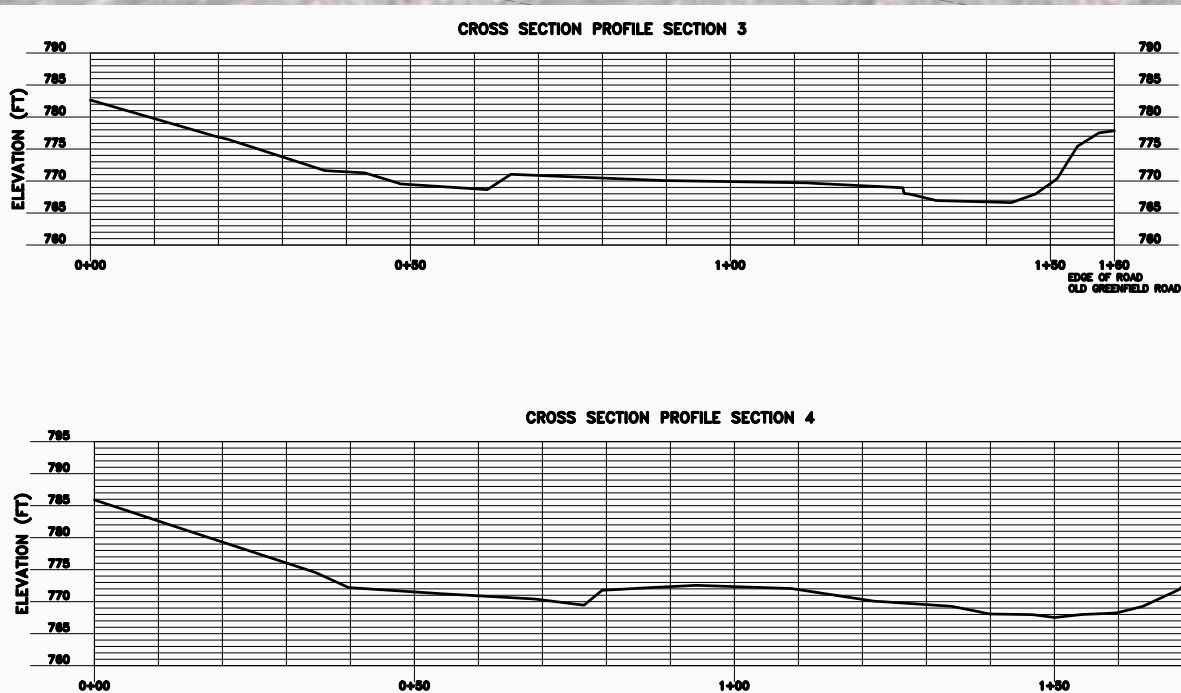
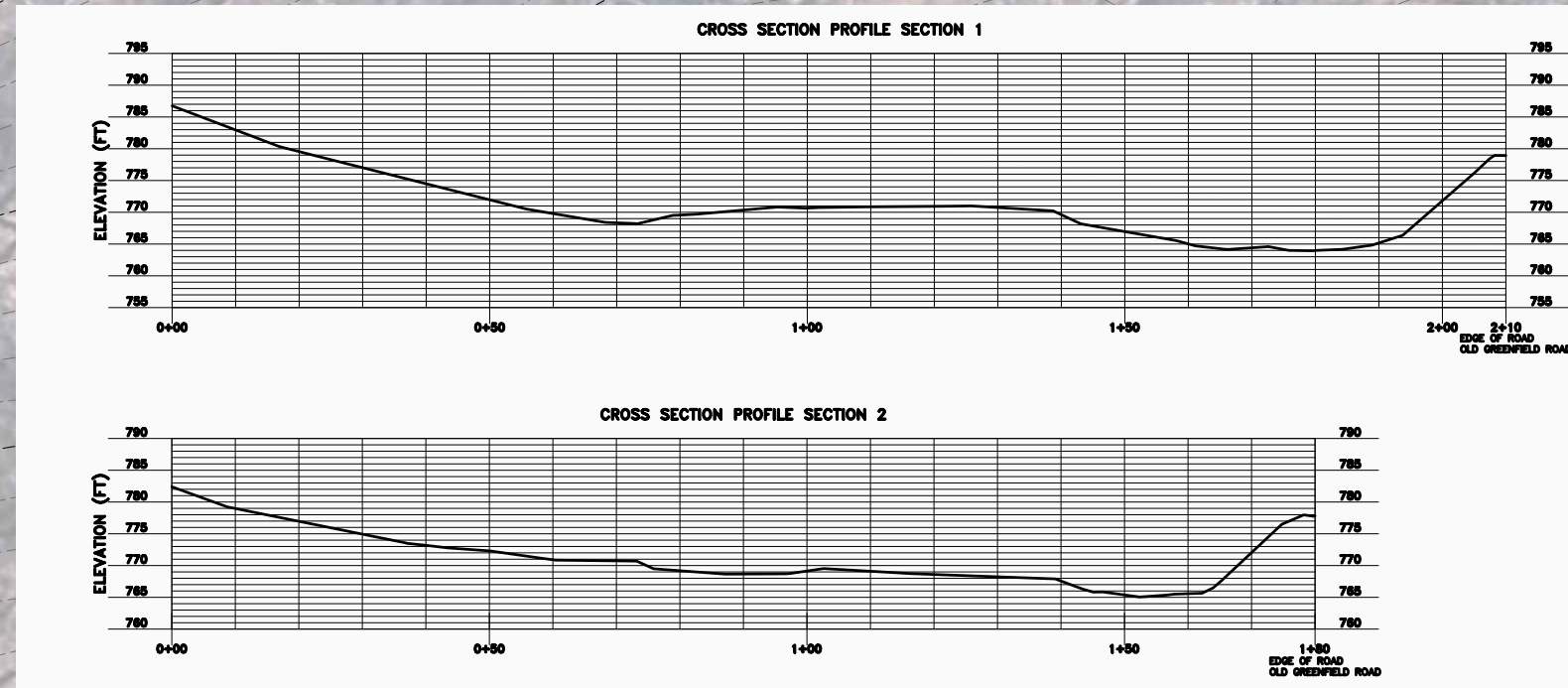
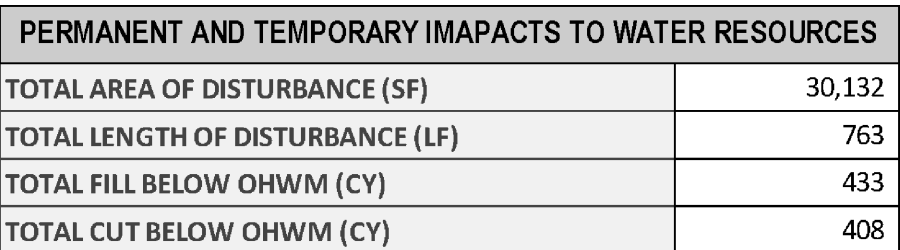
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Date
DECEMBER 2019
Scale
AS SHOWN
Sheet Number
C-141
Project Number
924.068.002



APPROXIMATE STREAM PRACTICE LAYOUT		
POINT	NORTHING	EASTING
W-3	1,052,345.45	499,467.80
W-4	1,052,514.10	499,963.16
R-10	1,052,380.41	499,522.96
R-11	1,052,509.48	499,960.81
SB-18	1,052,380.17	499,495.82
SB-19	1,052,428.05	499,560.19
SB-20	1,052,463.29	499,632.01
SB-21	1,052,493.17	499,716.91
SB-22	1,052,511.95	499,804.92

PERMANENT AND TEMPORARY IMPACTS TO WATER RESOURCES	
TOTAL AREA OF DISTURBANCE (SF)	30,132
TOTAL LENGTH OF DISTURBANCE (LF)	763
TOTAL FILL BELOW OHWM (CY)	433
TOTAL CUT BELOW OHWM (CY)	408



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REVISIONS	

VILLAGE OF ELLENVILLE & TOWN OF WAWARSING
STREAM RESTORATION PROJECT

TOWN OF WAWARSING

SITE 5

STREAM RESTORATION PLAN

ULSTER COUNTY, NEW YORK

Barton & Loguidice

DRAFT

Date
DECEMBER 2019

Scale
AS SHOWN

Sheet Number

C-151

Project Number

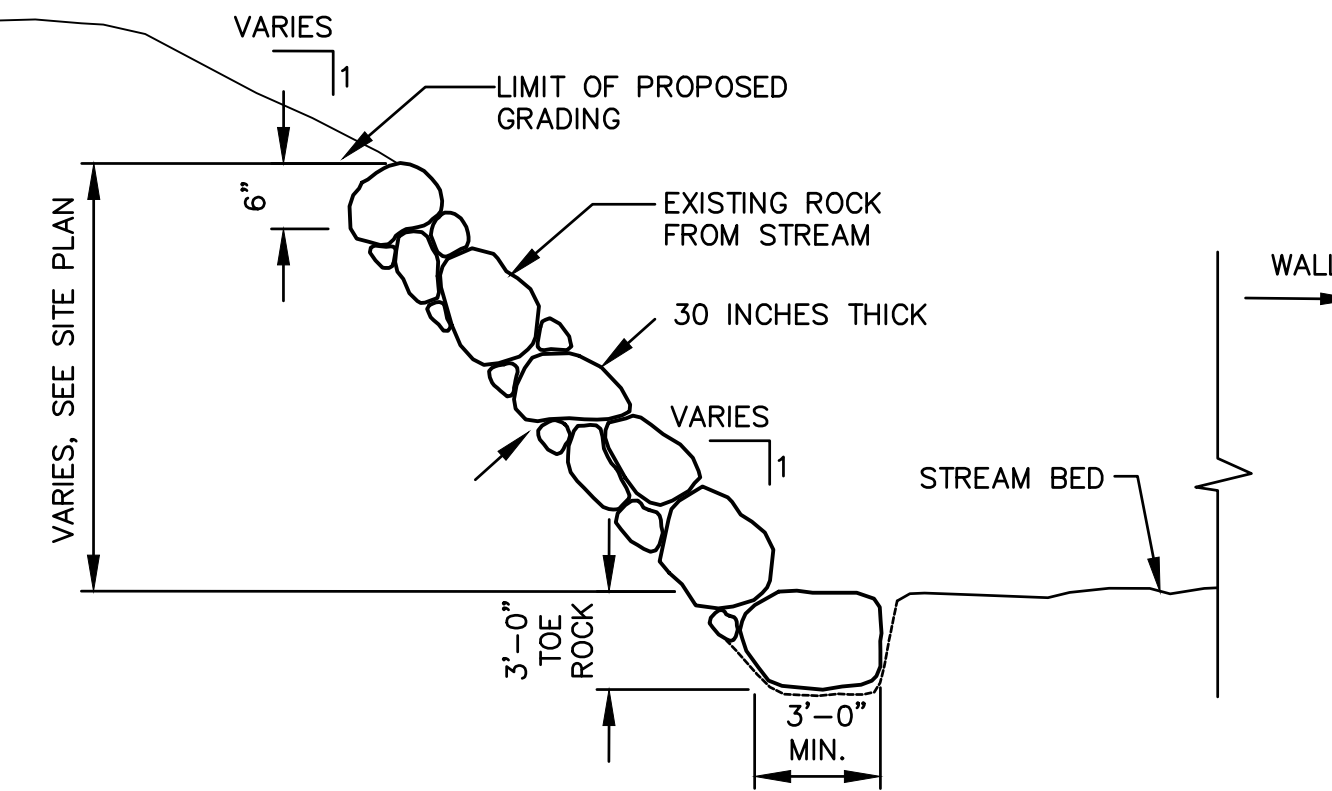
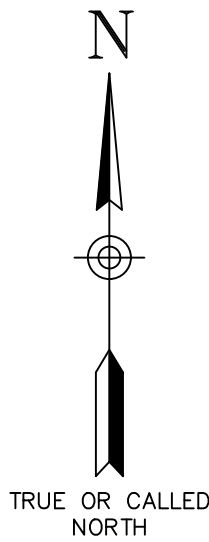
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Checked by: DHE Drawn by: REC Designed by: BUE In Charge of: RAM Last Saved: 12/18/2019



TEMPORARY ACCESS EASEMENT PLAN

SCALE 1"=100'±



HEAVY ROCK RIPRAP AND FILL DETAIL TYPICAL CROSS-SECTION LOOKING UPSTREAM

NOT TO SCALE

LEGEND

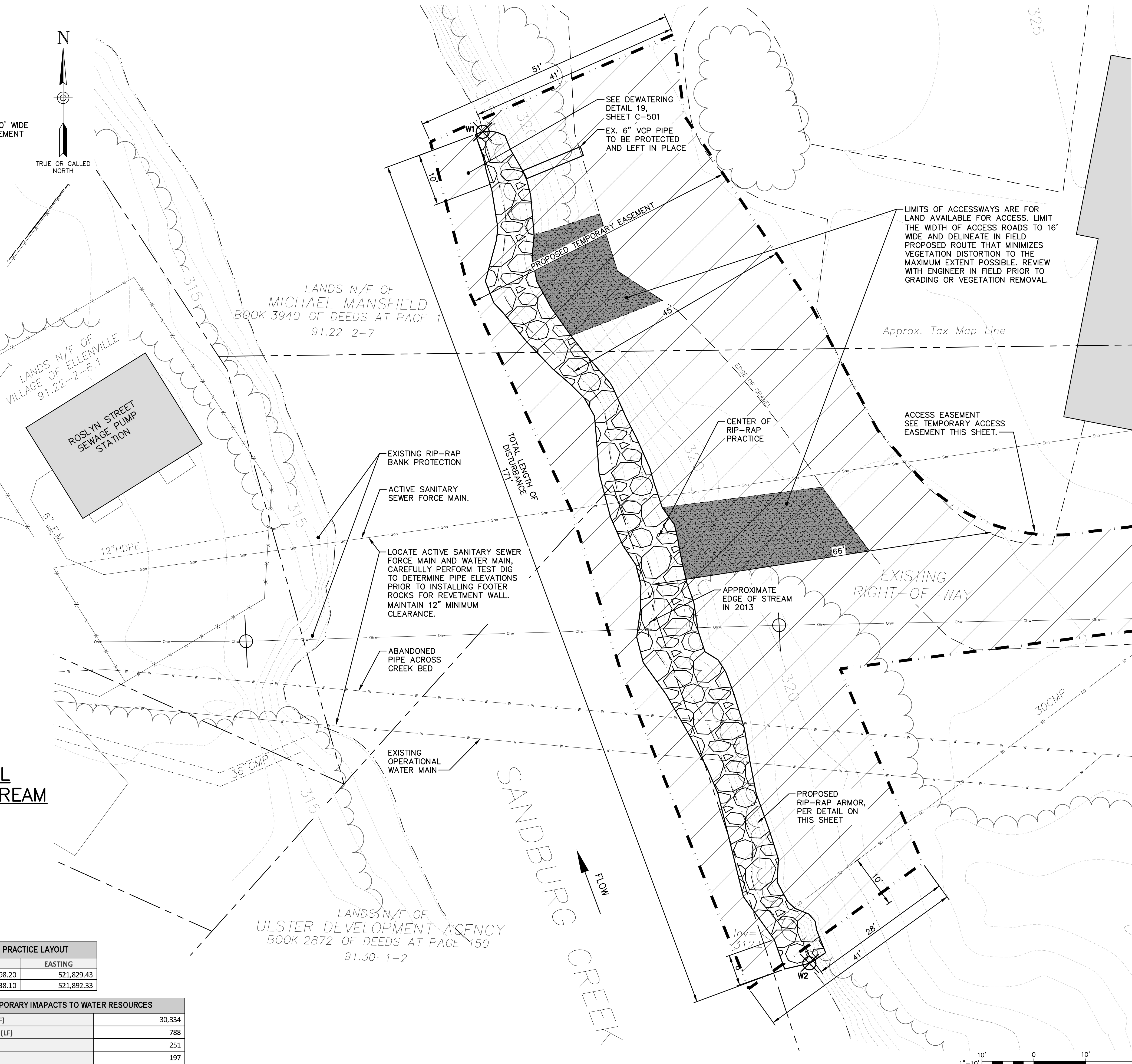
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING EDGE OF WATER
- EXISTING EDGE OF GRAVEL
- PROPERTY BOUNDARY
- EXISTING FENCE
- EXISTING STRUCTURE
- PROPOSED TEMPORARY EASEMENT
- PROPOSED TEMPORARY ACCESSWAY

NOTES:

- THE INTENT OF RIP-RAP ARMORING IS TO STABILIZE EAST BANK OF SANDBURG CREEK TO ELEVATION 216.0 AND LEAVE EXISTING TREES GREATER THAN 4-INCHES IN DIAMETER.
- BASE MAP TAKEN FROM DATA PROVIDED FOR THE ROSLYN STREET PUMP STATION IMPROVEMENTS PROJECT BY AZIMUTH SURVEYING DATED AUGUST 2021, JUNE 2013, AND NOVEMBER 2013.

APPROXIMATE STREAM PRACTICE LAYOUT		
POINT	NORTHING	EASTING
W1	1,047,598.20	521,829.43
W2	1,047,438.10	521,892.33

PERMANENT AND TEMPORARY IMPACTS TO WATER RESOURCES	
TOTAL AREA OF DISTURBANCE (SF)	30,334
TOTAL LENGTH OF DISTURBANCE (LF)	788
TOTAL FILL BELOW OHWM (CY)	251
TOTAL CUT BELOW OHWM (CY)	197



1"=10' 10' 0 10' 20'

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REVISIONS

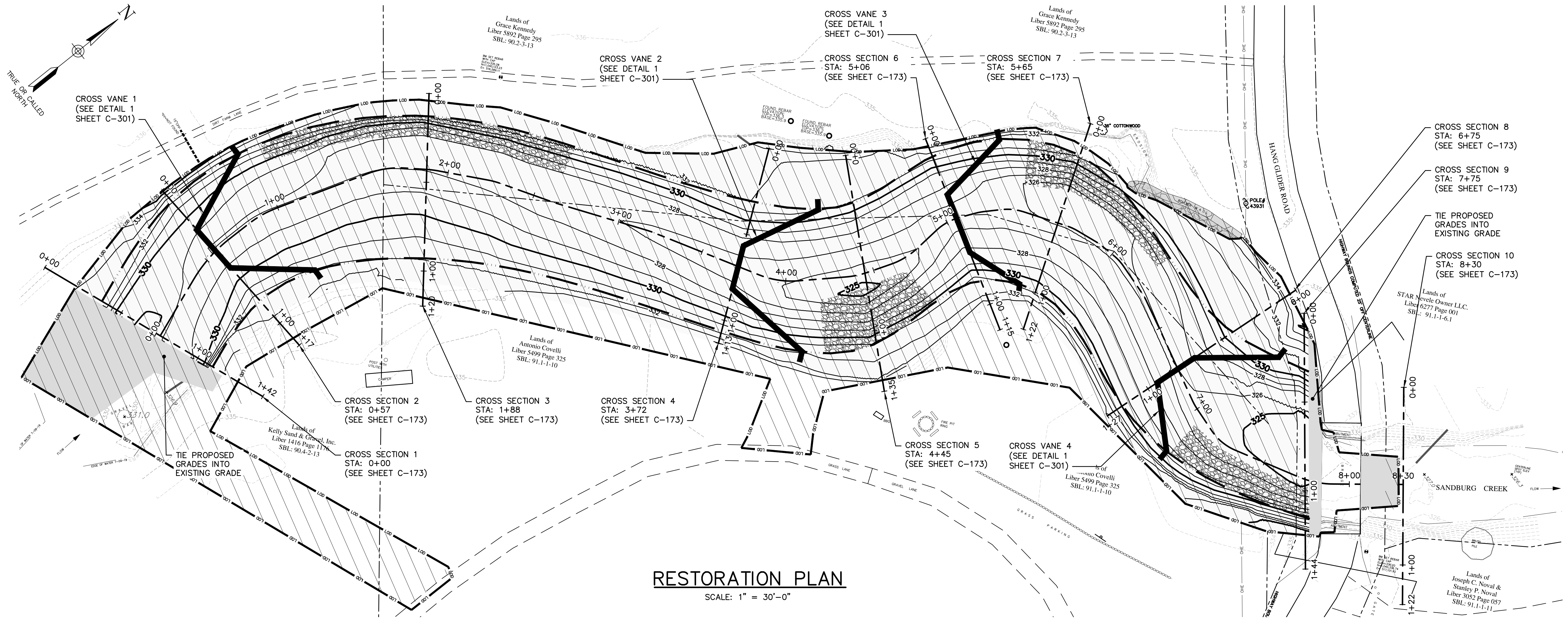
VILLAGE OF ELLENVILLE & TOWN OF WAWARSING
STREAM RESTORATION PROJECT
ULSTER COUNTY, NEW YORK
TOWN OF WAWARSING
STREAM RESTORATION PLAN
SITE 8

**Barton
&Loguidice**

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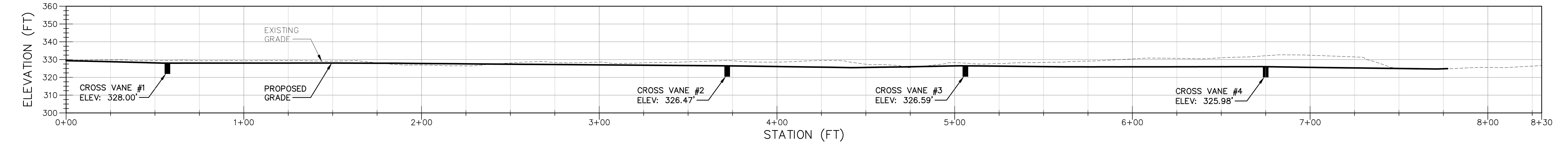
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C-161
Project Number
924.068.002

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Checked by: DHE Drawn by: WEG Designed by: ANE In Charge of: RAM Last Saved: 10/28/2019



RESTORATION PLAN

SCALE: 1" = 30'-0"



PROPOSED STREAM CENTERLINE PROFILE

SCALE: 1" = 30'-0"

CROSS VANE #1 LAYOUT (SEE DETAIL 1 ON SHEET C-301)				
POINT	NORTHING (FT)	EASTING (FT)	ELEV.(FT)	
1	1,039,973.51	516,614.30	332.06	
2	1,039,973.72	516,608.58	332.06	
3	1,039,937.39	516,577.97	328.00	
4	1,039,936.68	516,563.66	328.00	
5	1,039,935.96	516,549.35	328.00	
6	1,039,980.70	516,530.57	332.86	
7	1,039,980.69	516,525.08	332.86	

CROSS VANE #2 LAYOUT (SEE DETAIL 1 ON SHEET C-301)			
POINT	NORTHING (FT)	EASTING (FT)	ELEV.(FT)
1	1,040,154.37	516,819.33	331.88
2	1,040,159.13	516,815.68	331.88
3	1,040,150.62	516,763.57	326.47
4	1,040,160.62	516,756.07	326.47
5	1,040,170.62	516,748.58	326.47
6	1,040,216.05	516,759.04	331.09
7	1,040,219.62	516,754.21	331.09

CROSS VANE #3 LAYOUT (SEE DETAIL 1 ON SHEET C-301)			
POINT	NORTHING (FT)	EASTING (FT)	ELEV.(FT)
1	1,040,274.33	516,866.76	330.77
2	1,040,278.47	516,862.41	330.77
3	1,040,267.77	516,831.05	326.48
4	1,040,272.97	516,814.41	326.48
5	1,040,278.17	516,797.76	326.48
6	1,040,320.19	516,791.96	331.65
7	1,040,322.85	516,786.58	331.65

CROSS VANE #4 LAYOUT (SEE DETAIL 1 ON SHEET C-301)			
POINT	NORTHING (FT)	EASTING (FT)	ELEV.(FT)
1	1,040,278.48	516,988.70	328.60
2	1,040,284.35	516,987.46	328.60
3	1,040,304.49	516,954.20	326.01
4	1,040,316.94	516,955.28	326.01
5	1,040,329.40	516,956.35	326.01
6	1,040,366.59	516,985.70	330.93
7	1,040,372.43	516,984.32	330.93

CROSS SECTION COORDINATES				CROSS SECTION COORDINATES			
CROSS SECTION	POINT	NORTHING (FT)	EASTING (FT)	ELEV.(FT)	CROSS SECTION	POINT	NORTHING (FT)
1	STA: 0+00	1,039,856.00	516,512.58	335.86	6	STA: 0+00	1,040,288.21
	CENTERLINE	1,039,882.67	516,583.14	329.37		CENTERLINE	1,040,273.86
	END STA.	1,039,906.38	516,645.87	334.59		END STA.	1,040,253.79
2	STA: 0+00	1,039,934.62	516,519.77	336.22	7	STA: 0+01	1,040,366.01
	CENTERLINE	1,039,936.91	516,565.36	328.00		CENTERLINE	1,040,316.80
	END STA.	1,039,940.46	516,636.17	334.54		END STA.	1,040,264.22
3	STA: 0+00	1,040,085.96	516,571.09	335.52	8	STA: 0+00	1,040,397.68
	CENTERLINE	1,040,058.25	516,603.69	327.92		CENTERLINE	1,040,318.19
	END STA.	1,040,008.38	516,662.37	335.06		END STA.	1,040,270.70
4	STA: 0+00	1,040,216.03	516,714.73	333.09	9	STA: 0+00	1,040,393.25
	CENTERLINE	1,040,161.04	516,755.88	326.47		CENTERLINE	1,040,335.24
	END STA.	1,040,125.27	516,782.64	334.54		END STA.	1,040,303.88
5	STA: 0+00	1,040,247.28	516,744.71	332.64	10	STA: 0+00	1,040,410.98
	CENTERLINE	1,040,214.33	516,803.31	325.49		CENTERLINE	1,040,376.59
	END STA.	1,040,181.31	516,862.04	334.73		END STA.	1,040,334.04

CROSS SECTION COORDINATES				CROSS SECTION COORDINATES			
CROSS SECTION	POINT	NORTHING (FT)	EASTING (FT)	ELEV.(FT)	CROSS SECTION	POINT	NORTHING (FT)
6	STA: 0+00	1,040,288.21	516,765.45	335.15	7	STA: 0+01	1,040,366.01
	CENTERLINE	1,040,273.86	516,811.39	326.48		CENTERLINE	1,040,316.80
	END STA.	1,040,253.79	516,875.65	334.00		END STA.	1,040,264.22
7	STA: 0+01	1,040,366.01	516,816.79	334.48	8	STA: 0+00	1,040,397.68
	CENTERLINE	1,040,316.80	516,849.09	325.93		CENTERLINE	1,040,318.19
	END STA.	1,040,264.22	516,883.61	333.80		END STA.	1,040,270.70
8	STA: 0+00	1,040,397.68	516,962.15	334.88	9	STA: 0+00	1,040,393.25
	CENTERLINE	1,040,318.19	516,955.31	326.01		CENTERLINE	1,040,335.24
	END STA.	1,040,270.70	516,951.23	333.83		END STA.	1,040,303.88
9	STA: 0+00	1,040,393.25	516,975.27	335.11	10	STA: 0+00	1,040,410.98
	CENTERLINE	1,040,335.24	517,048.58	324.82		CENTERLINE	1,040,376.59
	END STA.	1,040,303.88	517,088.20	335.99		END STA.	1,040,334.04
10	STA: 0+00	1,040,410.98	517,042.86	335.01			
	CENTERLINE	1,040,376.59	517,085.35	326.61			
	END STA.	1,040,334.04	517,137.91	334.86			

LEGEND

EXISTING MINOR CONTOUR

EXISTING MAJOR CONTOUR

EXISTING EDGE OF WATER

EXISTING UNPAVED ROAD

EXISTING PAVED ROAD

FALLEN TREE

OVERHEAD ELECTRIC

PROPERTY BOUNDARY

PROPOSED MINOR CONTOUR

PROPOSED MAJOR CONTOUR

PROPOSED STREAM CENTERLINE

PROPOSED STREAM BANK

PROPOSED LIMIT OF DISTURBANCE

PROPOSED PERMANENT EASEMENT

PROPOSED RIP-RAP

TIE-IN REGION

NOTE:
1. COORDINATES REFERENCE DATUM NAD83 NEW YORK STATE PLANES, CENTRAL ZONE, US SURVEY FOOT.

1"=30'

0

30'

60'

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REVISIONS	

VILLAGE OF ELLENVILLE & TOWN OF WAWARSING
STREAM RESTORATION PROJECT
SITE 10
RESTORATION PLAN
TOWN OF WAWARSING
ULSTER COUNTY, NEW YORK

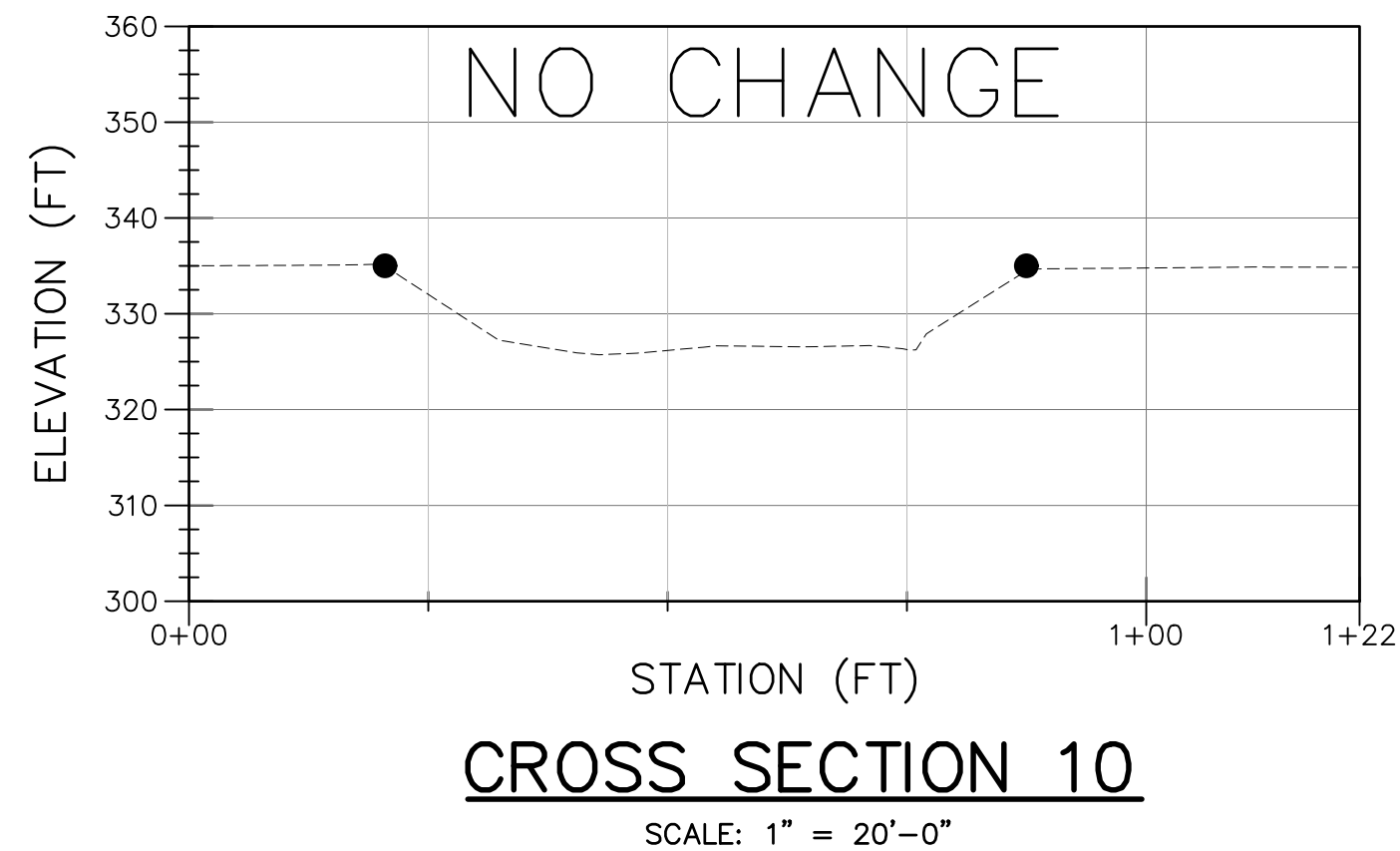
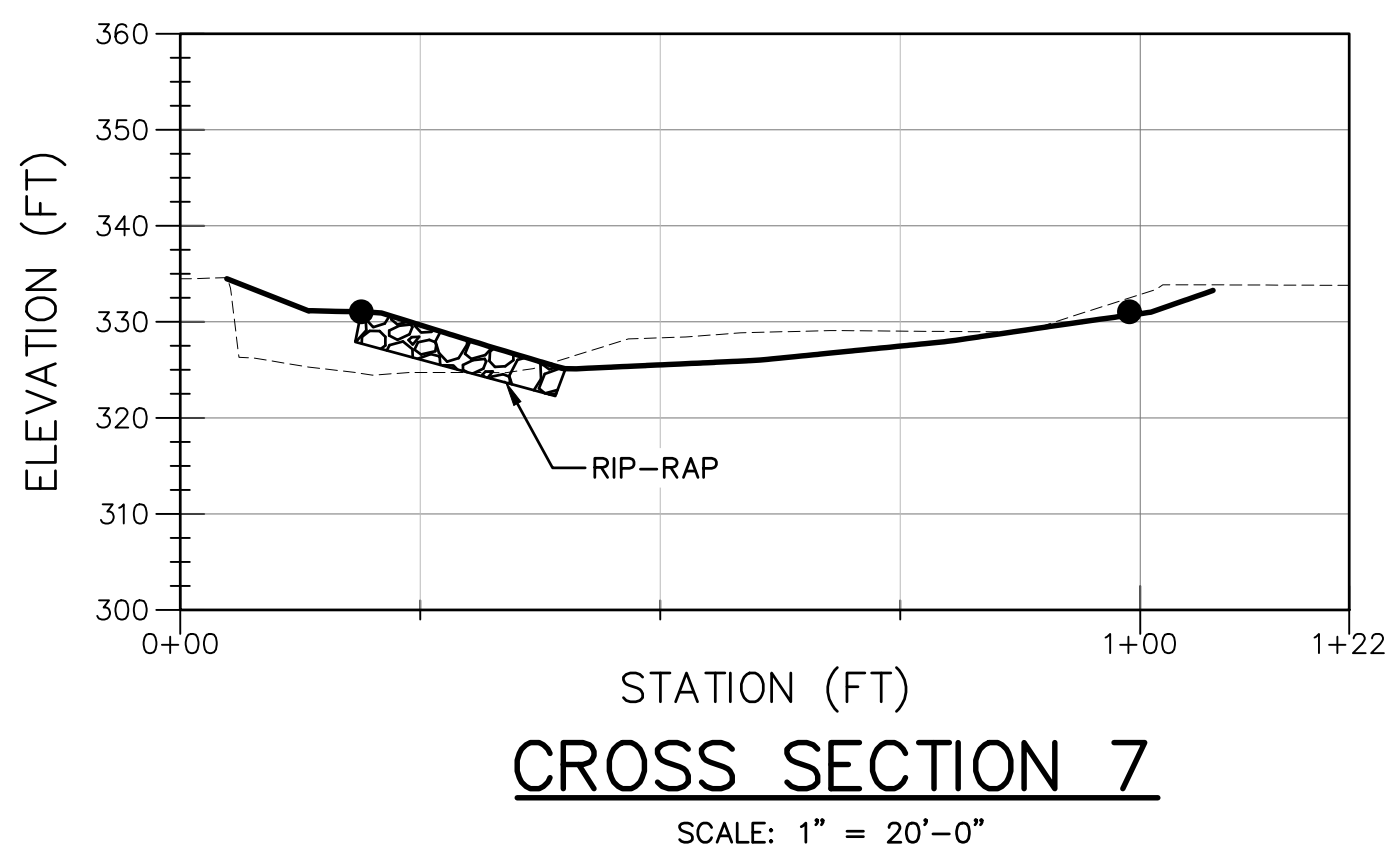
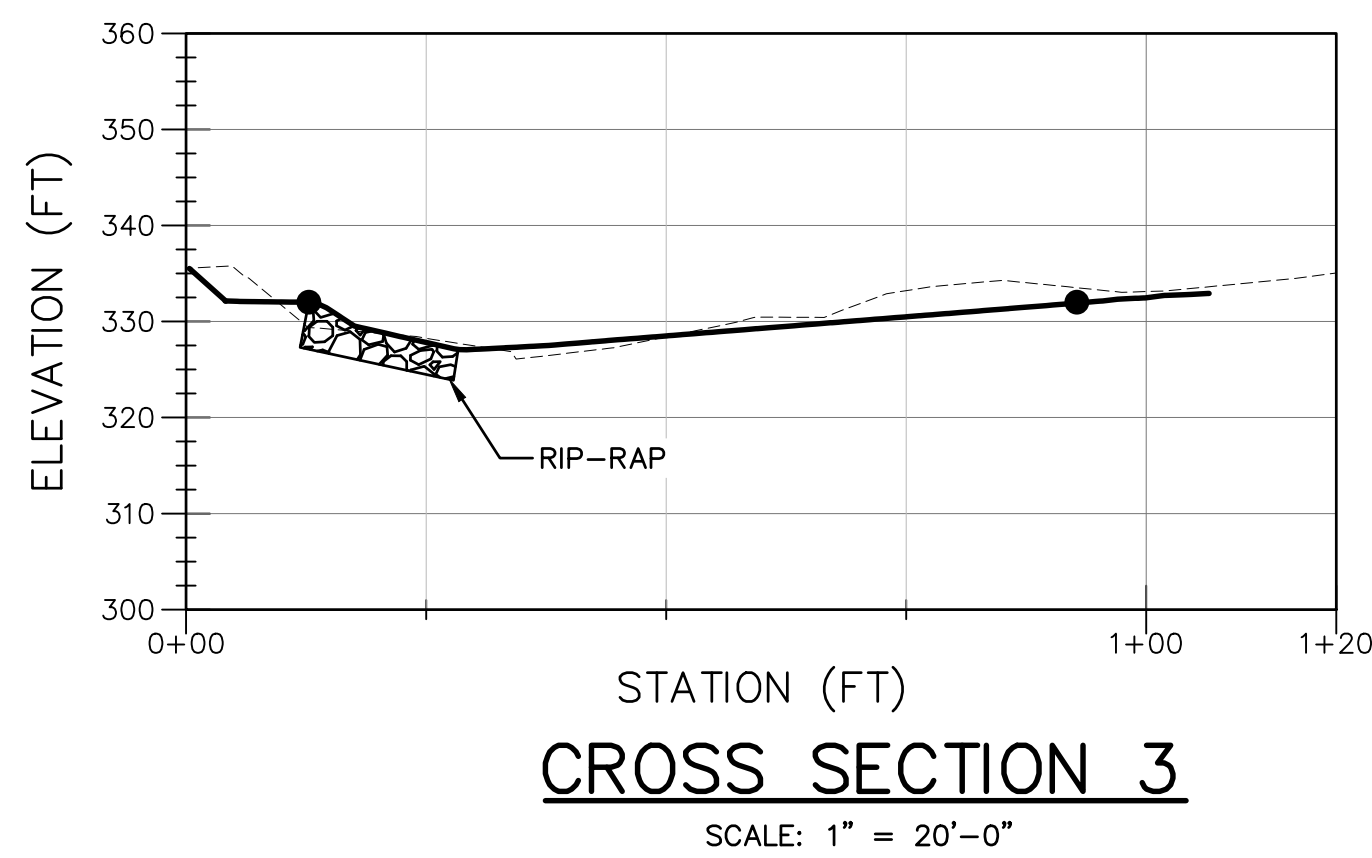
Barton & Loguidice

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Date
DECEMBER 2019
Scale
AS SHOWN
Sheet Number
C-172
Project Number
924.068.002

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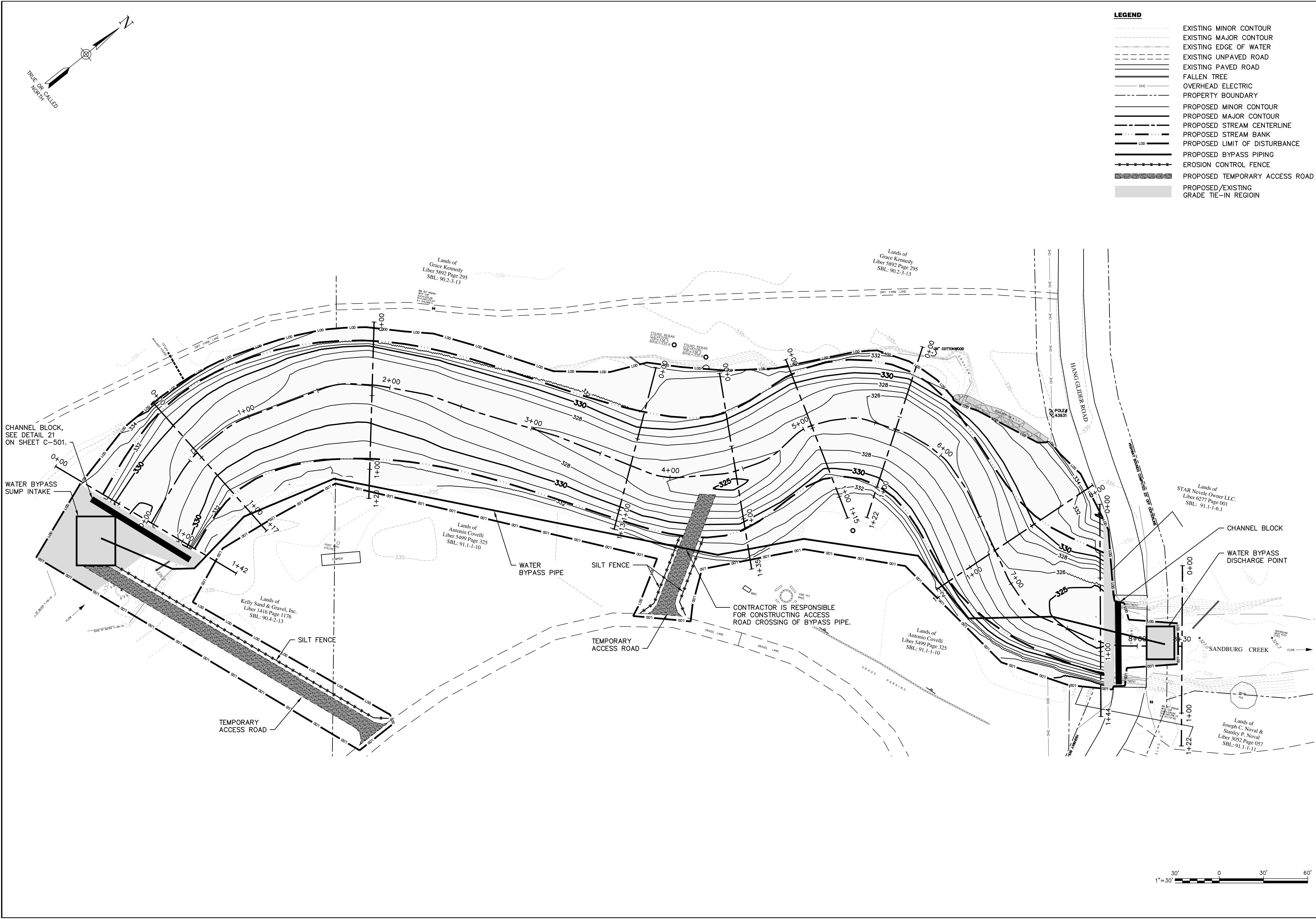
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- PROPOSED GRADE
- TOP OF BANK



924.068.002

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 Project Name: Ellenville Stream Restoration Phase 2&3
 Checked by: DHE Drawn by: WBG
 In Charge of: ANE
 Last Saved: 10/1/2019

Plotted: Dec 18, 2019 - 2:23PM
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Checked by: DHE Drawn by: MBG Designed by: ANE In Charge of: RAM Last Saved: 12/18/2019



- LEGEND**
- EXISTING MINOR CONTOUR
 - EXISTING MAJOR CONTOUR
 - EXISTING EDGE OF WATER
 - EXISTING UNPAVED ROAD
 - EXISTING PAVED ROAD
 - FALLEN TREE
 - OVERHEAD ELECTRIC
 - PROPERTY BOUNDARY
 - PROPOSED MINOR CONTOUR
 - PROPOSED MAJOR CONTOUR
 - PROPOSED STREAM CENTERLINE
 - PROPOSED STREAM BANK
 - PROPOSED LIMIT OF DISTURBANCE
 - PROPOSED BYPASS PIPING
 - EROSION CONTROL FENCE
 - PROPOSED TEMPORARY ACCESS ROAD
 - PROPOSED/EXISTING GRADE TIE-IN REGION

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REVISIONS	

VILLAGE OF ELLENVILLE & TOWN OF WAWARSING
STREAM RESTORATION PROJECT
TOWN OF WAWARSING
ULSTER COUNTY, NEW YORK
SITE 10
EROSION AND SEDIMENT CONTROL PLAN

Barton & Loguidice

DRAFT

Date
DECEMBER 2019

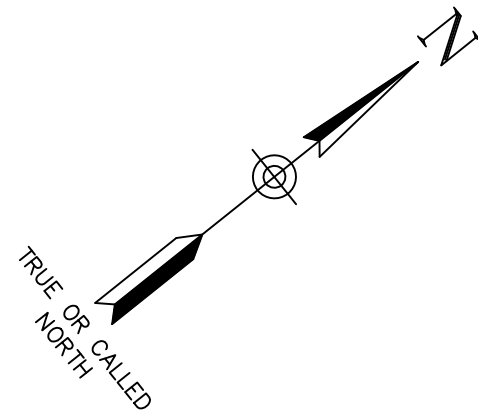
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Project Number
924.068.002

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Checked by: DHE Drawn by: MBG Designed by: ANE In Charge of: RAM Last Saved: 12/18/2019

SYR By: WBG

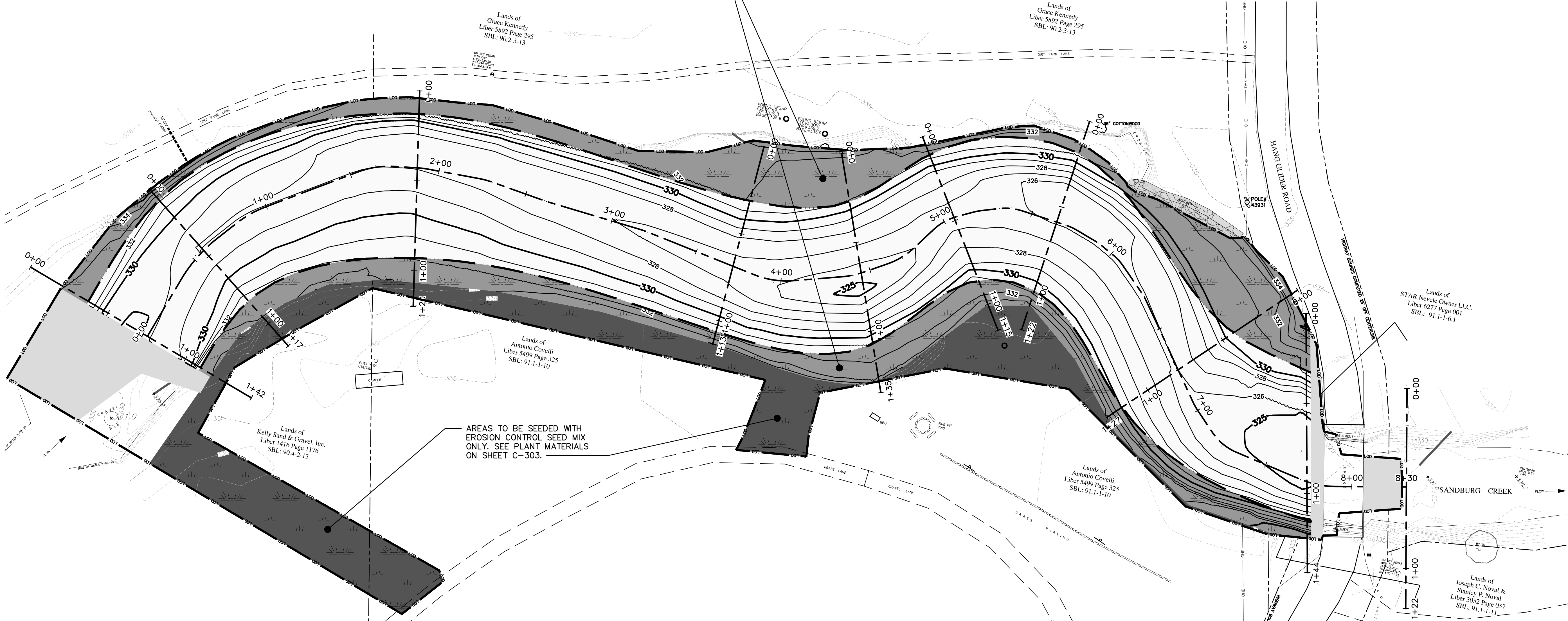


LEGEND

- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING EDGE OF WATER
- EXISTING UNPAVED ROAD
- EXISTING PAVED ROAD
- FALLEN TREE
- OVERHEAD ELECTRIC
- PROPERTY BOUNDARY
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED STREAM CENTERLINE
- PROPOSED STREAM BANK
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED GRADING TIE-IN REGION
- AREA TO BE SEEDED WITH EROSION CONTROL SEED MIX AND PLANTED WITH LIVE STAKES
- AREA SEEDED WITH EROSION CONTROL SEED MIX ONLY

AREAS TO BE SEEDED WITH EROSION CONTROL SEED MIX AND PLANTED WITH LIVE STAKES. SEE DETAIL 15 AND PLANT MATERIALS ON SHEET C-303.

AREAS TO BE SEEDED WITH EROSION CONTROL SEED MIX ONLY. SEE PLANT MATERIALS ON SHEET C-303.



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REVISIONS

NO.	DESCRIPTION	DATE

VILLAGE OF ELLENVILLE & TOWN OF WAWARSING
STREAM RESTORATION PROJECT
SITE 10
PLANTING PLAN
TOWN OF WAWARSING
ULSTER COUNTY, NEW YORK

Barton
&Loguidice

DRAFT

Date

DECEMBER 2019

Scale

AS SHOWN

Sheet Number

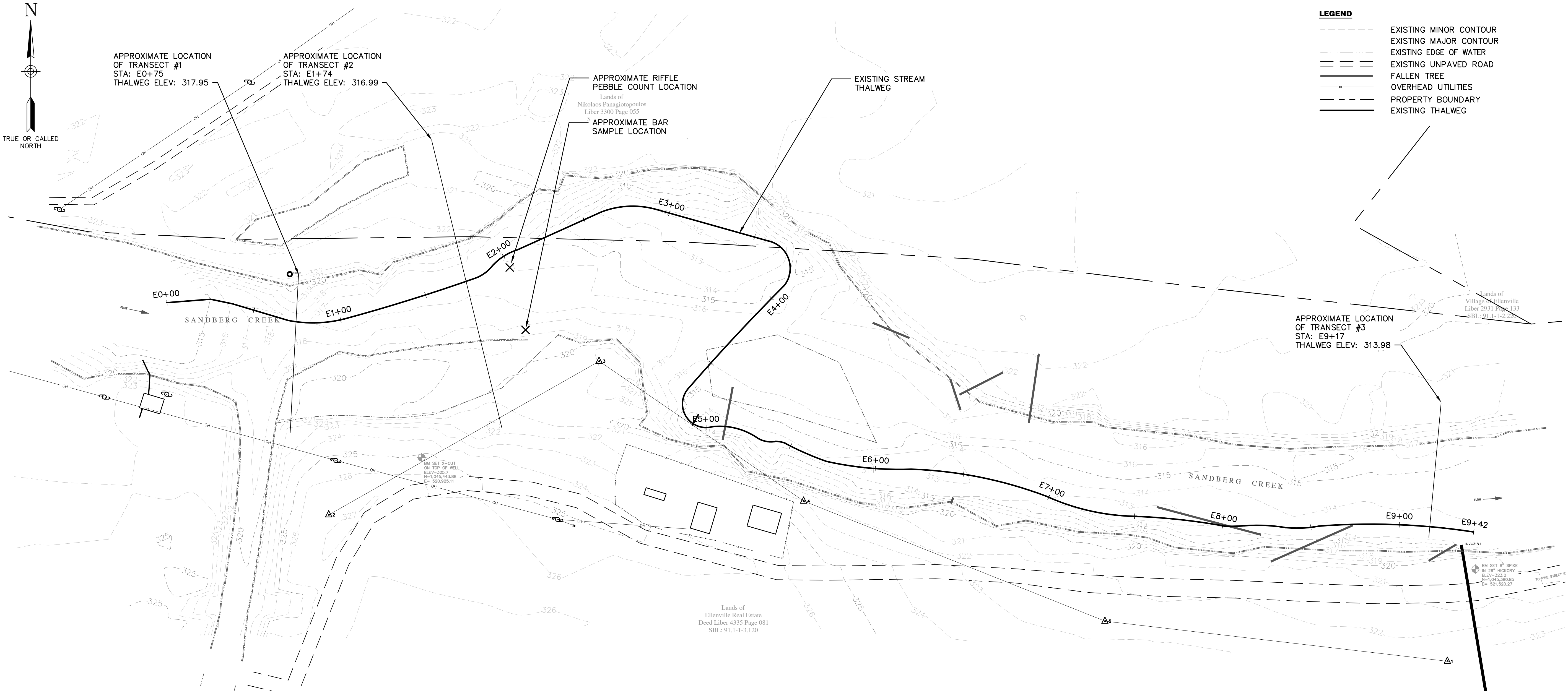
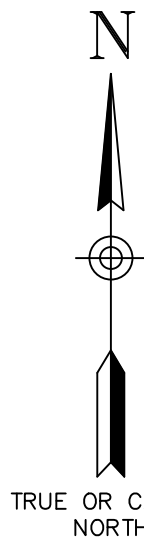
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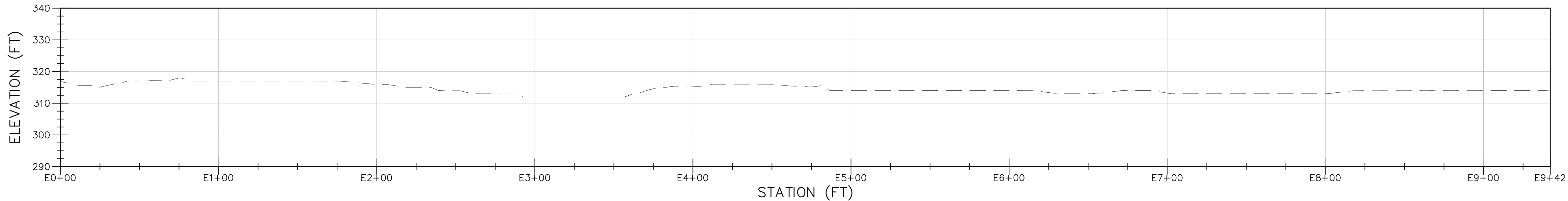
924.068.002

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Checked by: DHE Drawn by: WBG Designed by: ANE In Charge of: RAM Last Saved: 9/24/2019

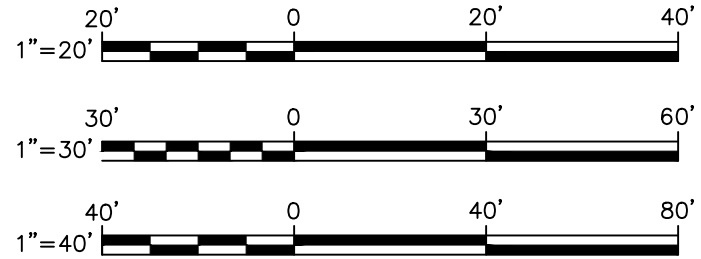
SYR By: WBG



EXISTING CONDITIONS PLAN
SCALE: 1" = 30'-0"



EXISTING CONDITIONS PROFILE
HORIZONTAL SCALE: 1" = 40'-0"
VERTICAL SCALE: 1" = 20'-0"



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION".

REVISIONS	

VILLAGE OF ELLENVILLE & TOWN OF WAWARSING
STREAM RESTORATION PROJECT
SITE 13
EXISTING CONDITIONS
TOWN OF WAWARSING
ULSTER COUNTY, NEW YORK

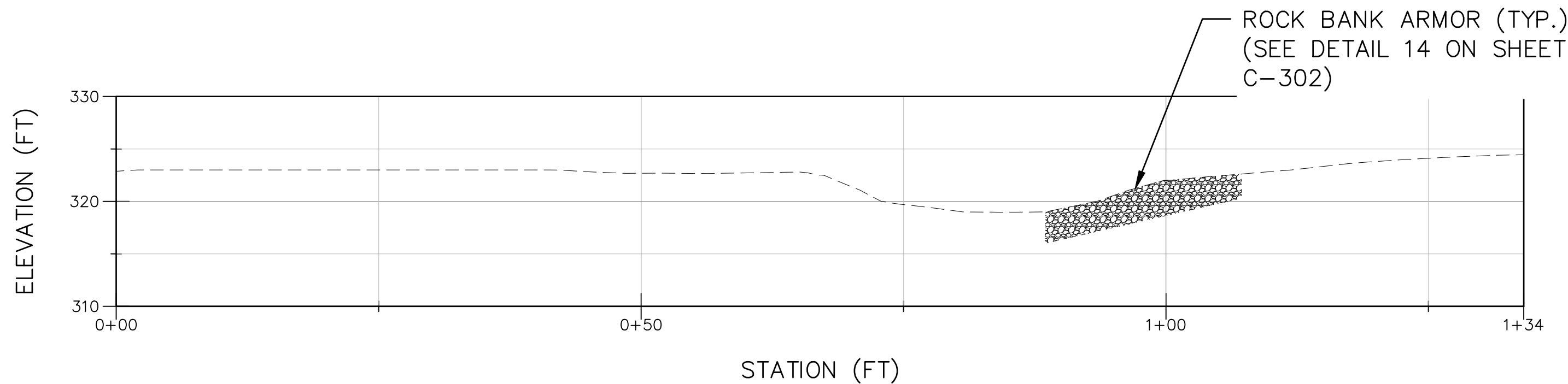
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Date
DECEMBER 2019
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Sheet Number
C-181
Project Number
924.068.002

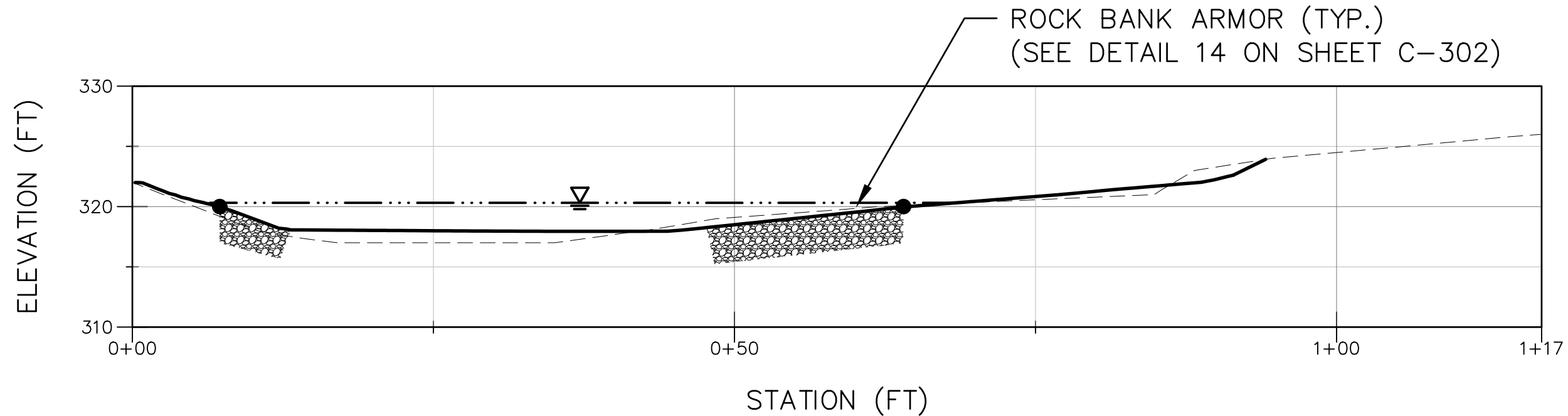
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File Name: 924.068.002_Site13_Cross_Sections.dwg Project No.: 924.068.002 Project Name: Ellenville Stream Restoration Phase 2&3
Checked by: DHE Drawn by: WEG Designed by: ANE In Charge of: RAM Last Saved: 10/14/2019

- LEGEND**
- EXISTING GRADE
 - PROPOSED GRADE
 - TOP OF BANK
 - ▽----- BANKFULL WATER ELEVATION



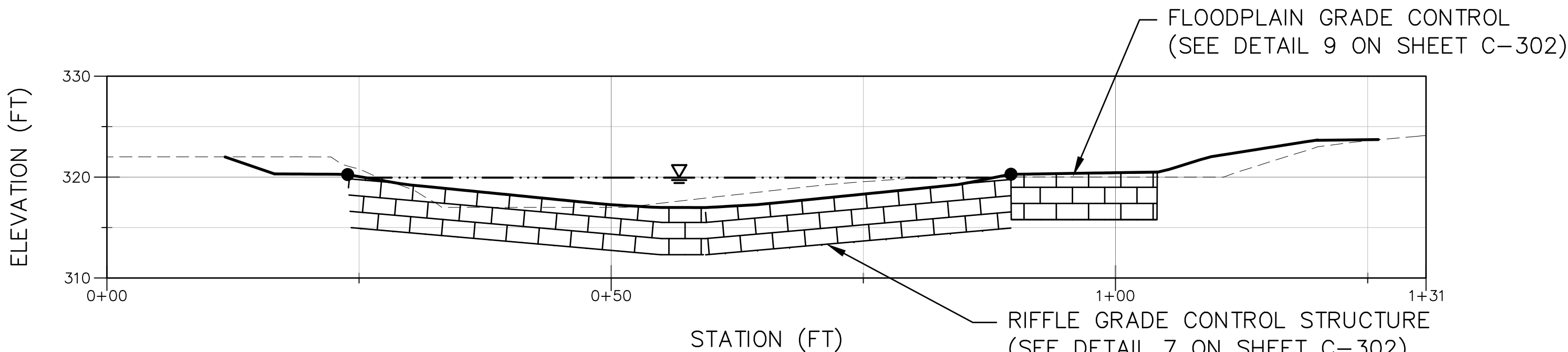
CROSS SECTION 1

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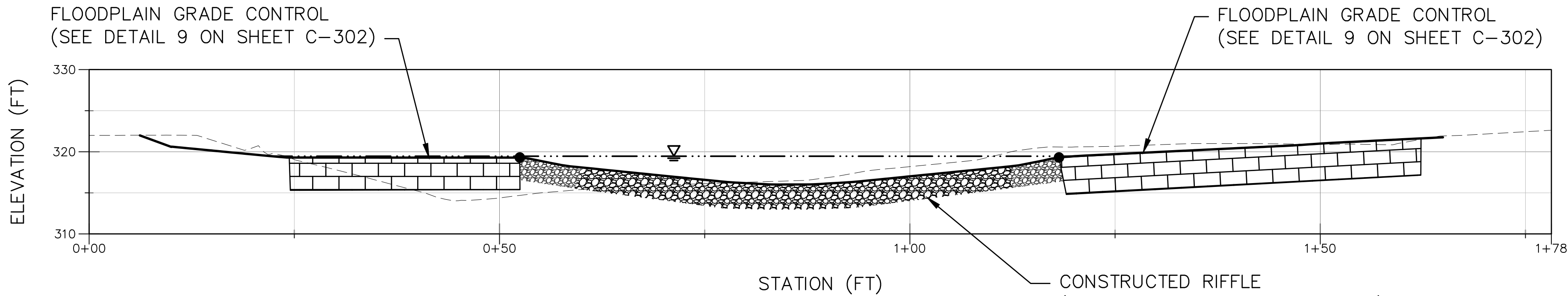
CROSS SECTION 2

SCALE: 1" = 10'-0"



CROSS SECTION 3

SCALE: 1" = 10'-0"



CROSS SECTION 4

SCALE: 1" = 10'-0"



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REVISIONS	

VILLAGE OF ELLENVILLE & TOWN OF WAWARSING
STREAM RESTORATION PROJECT
SITE 13 CROSS SECTIONS
PROPOSED CONDITIONS (1 of 2)
TOWN OF WAWARSING
ULSTER COUNTY, NEW YORK

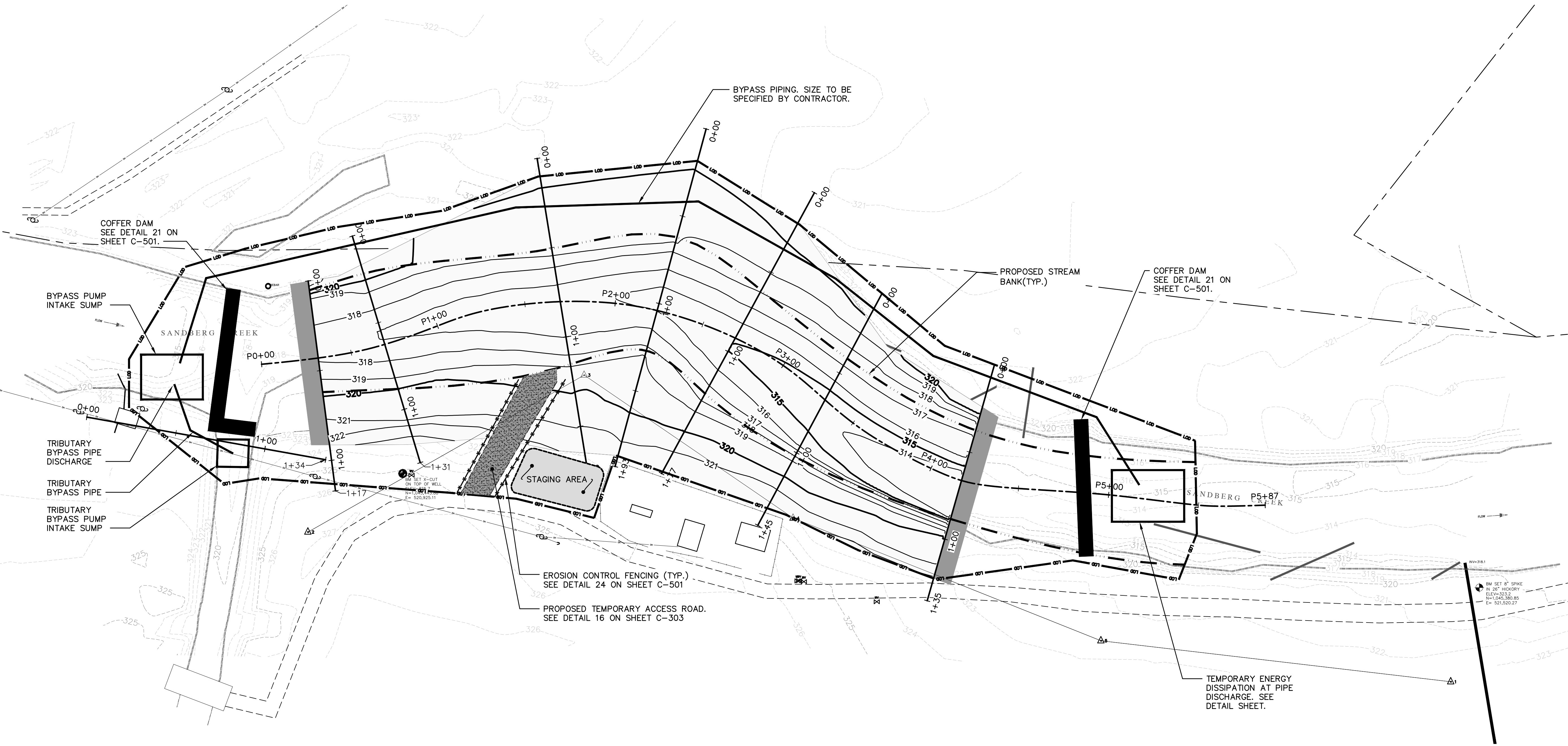
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DECEMBER 2019
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AS SHOWN
Sheet Number
C-184
Project Number
924.068.002

Plotted:

924.068.002



-
- 30' 0 30' 60'
- 1"=30'

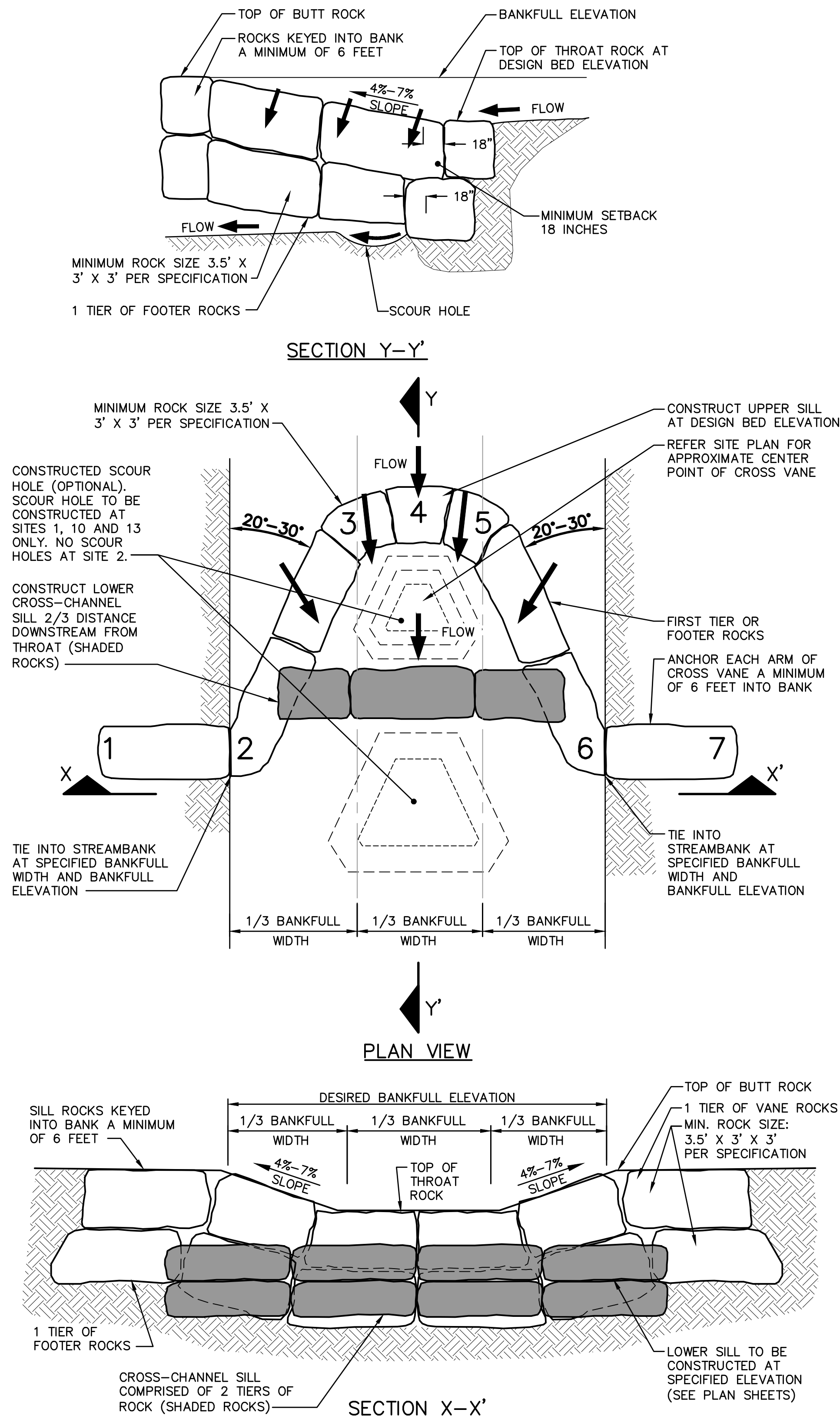
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REVISIONS	

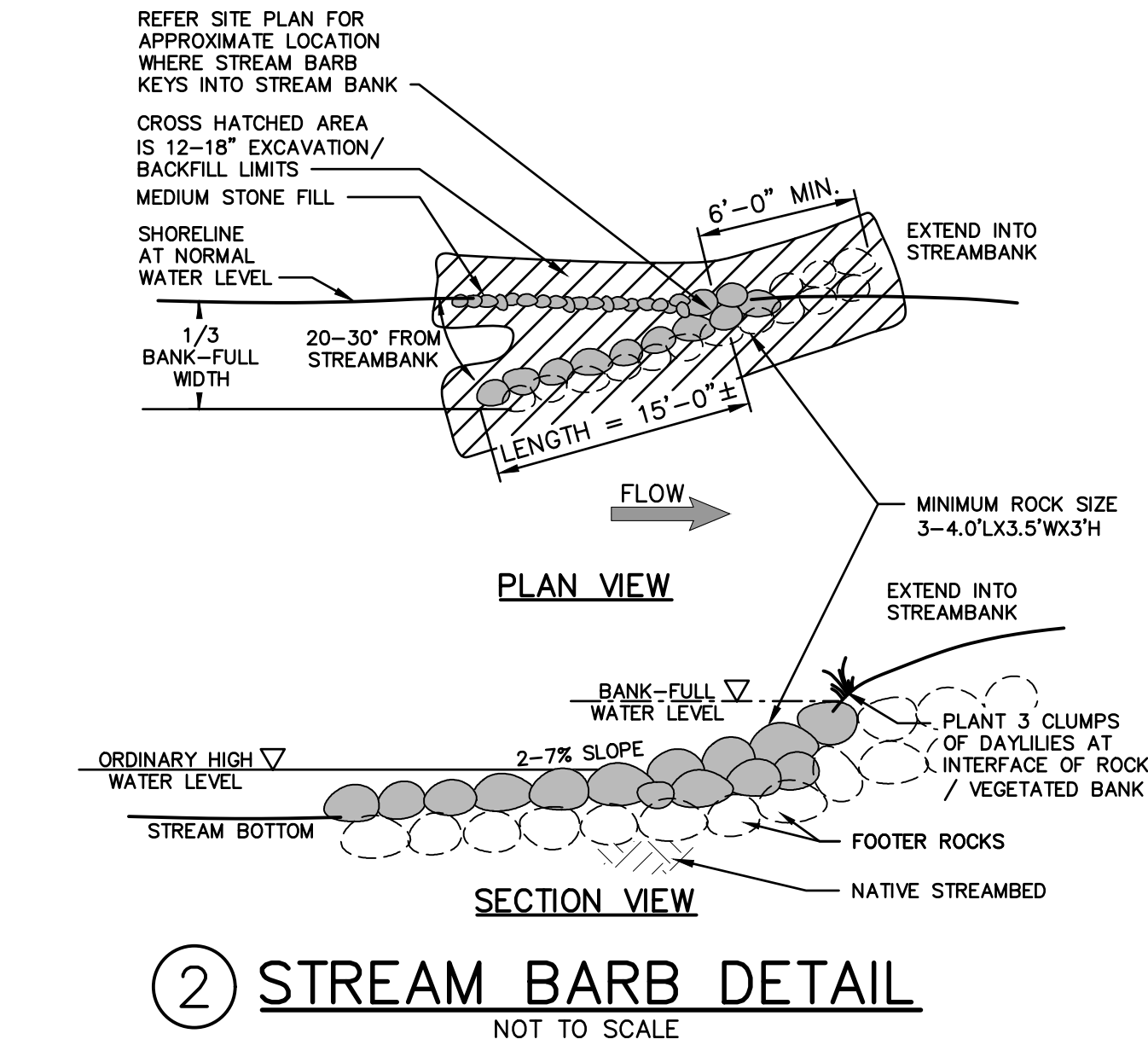
**Barton
&Loguidice**

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Sheet Number	C-187
Project Number	924.068.002

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Checked by: DHE Drawn by: REC Designed by: BGS In Charge of: RAM Last Saved: 11/18/2019

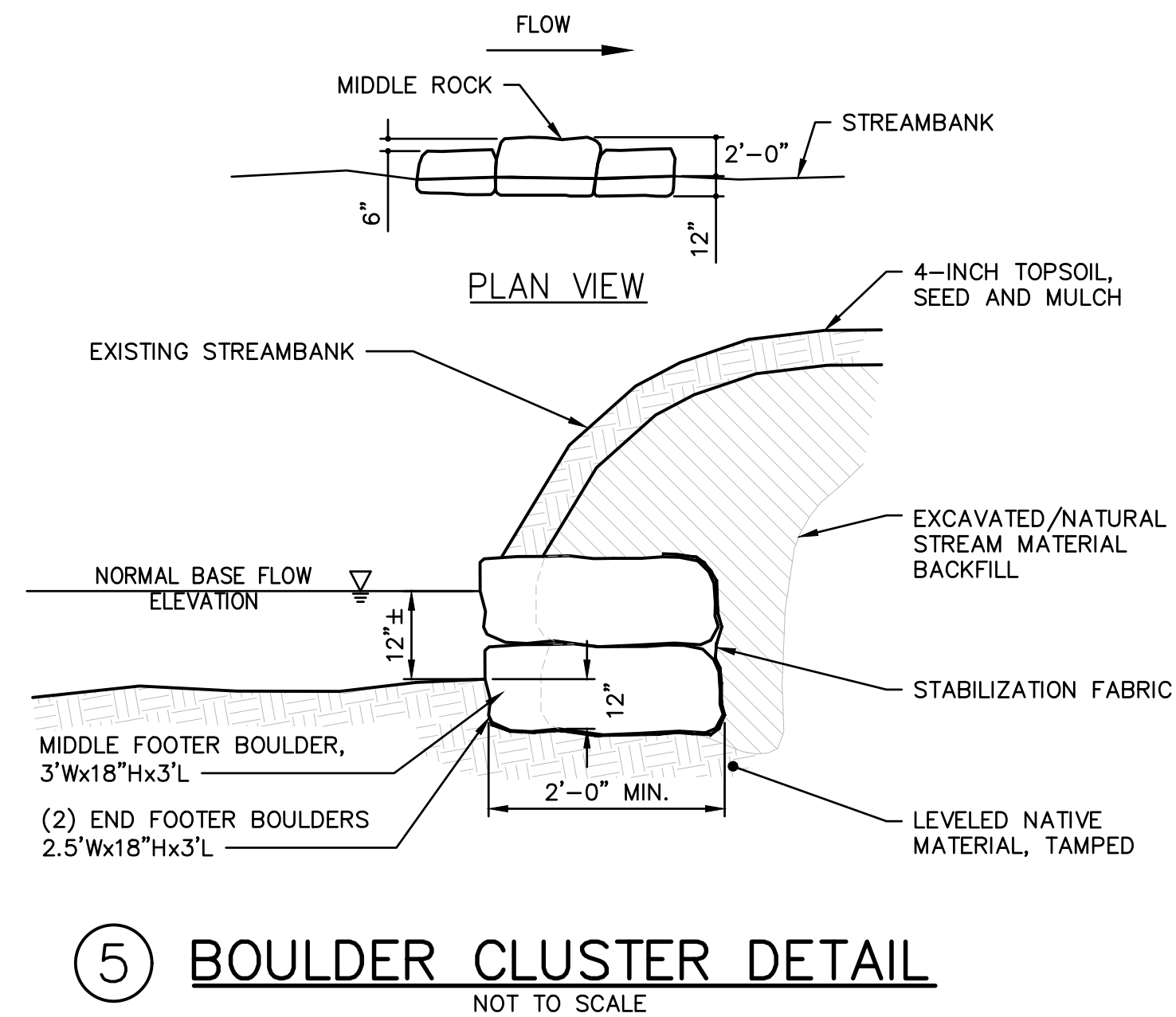


1 CROSS VANE DETAIL
NOT TO SCALE

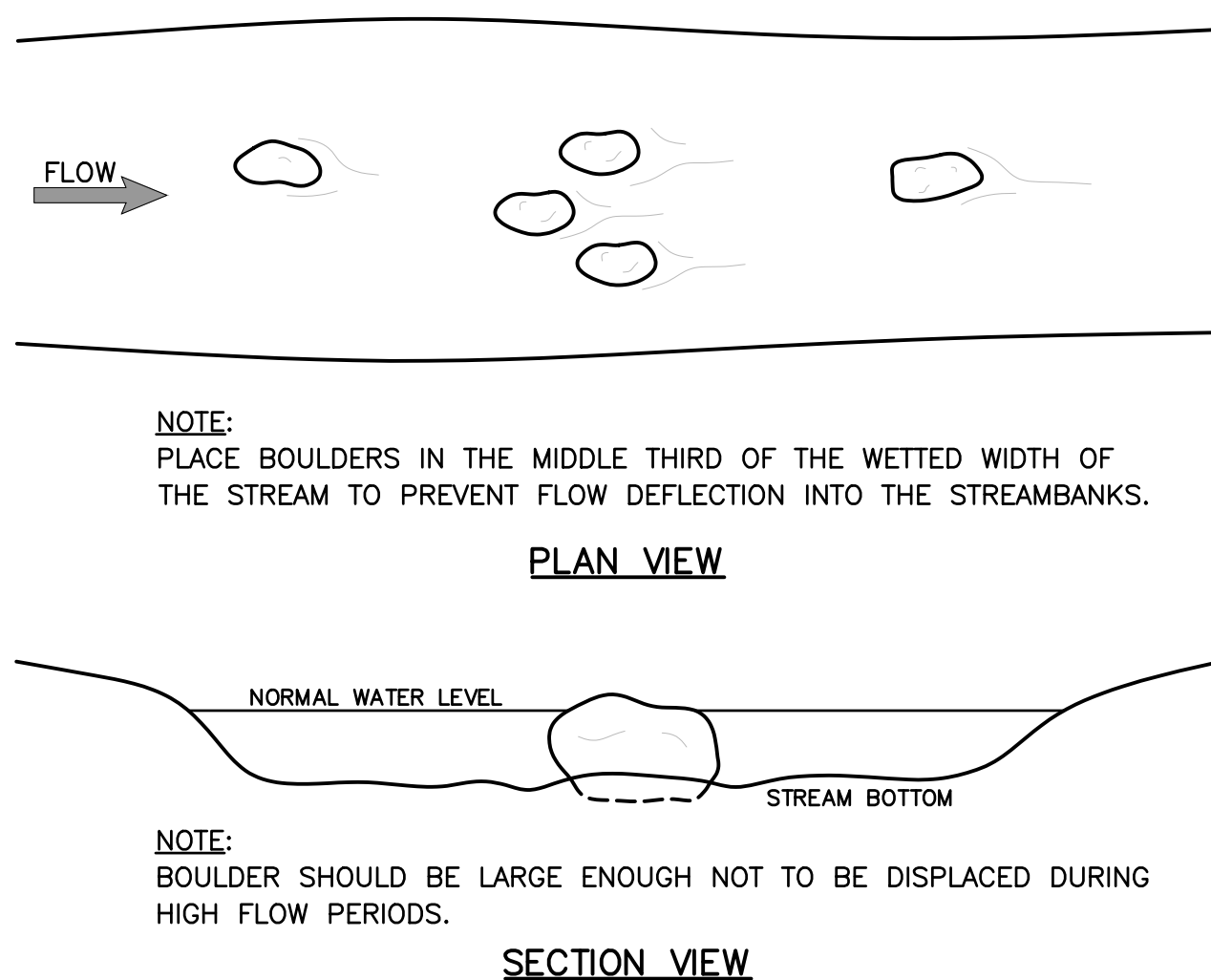


2 STREAM BARB DETAIL
NOT TO SCALE

- NOTES:
1. UTILIZE EXISTING EXCAVATED ROCKS OF SUFFICIENT SIZE AND SHAPE TO CONSTRUCT STREAM BARB AND MEDIUM STONE BANK FILL. SUPPLEMENT WITH IMPORTED STONE AS NECESSARY.
 2. DO NOT REMOVE STONES FROM STREAM BEYOND FOOTPRINT OF BARB INSTALLATION.
 3. USE 4-12\"/>



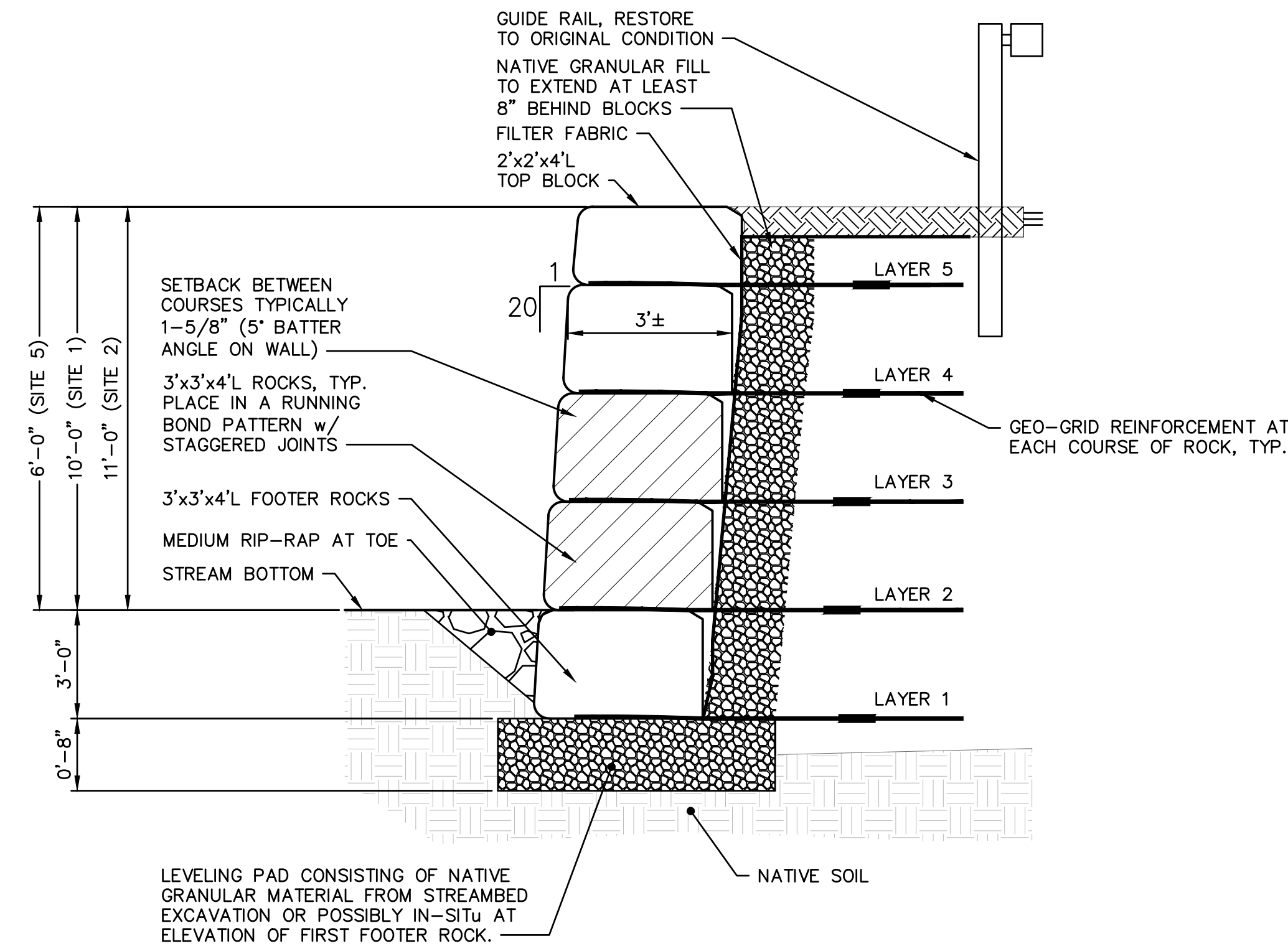
5 BOULDER CLUSTER DETAIL
NOT TO SCALE



PLAN VIEW

SECTION VIEW

- NOTES:
1. GEO-GRID MINIMUM EMBEDMENT LENGTH BEHIND ROCK WALL IS 4'-0\"/>



6 STONE REVETMENT WALL DETAIL
NOT TO SCALE

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VILLAGE OF ELLENVILLE & TOWN OF WAWARSING
STREAM RESTORATION PROJECT
DETAILS
(SHEET 1 OF 3)
TOWN OF WAWARSING
ULSTER COUNTY, NEW YORK

Barton
&Loguidice

DRAFT

Date

DECEMBER 2019

Scale

AS SHOWN

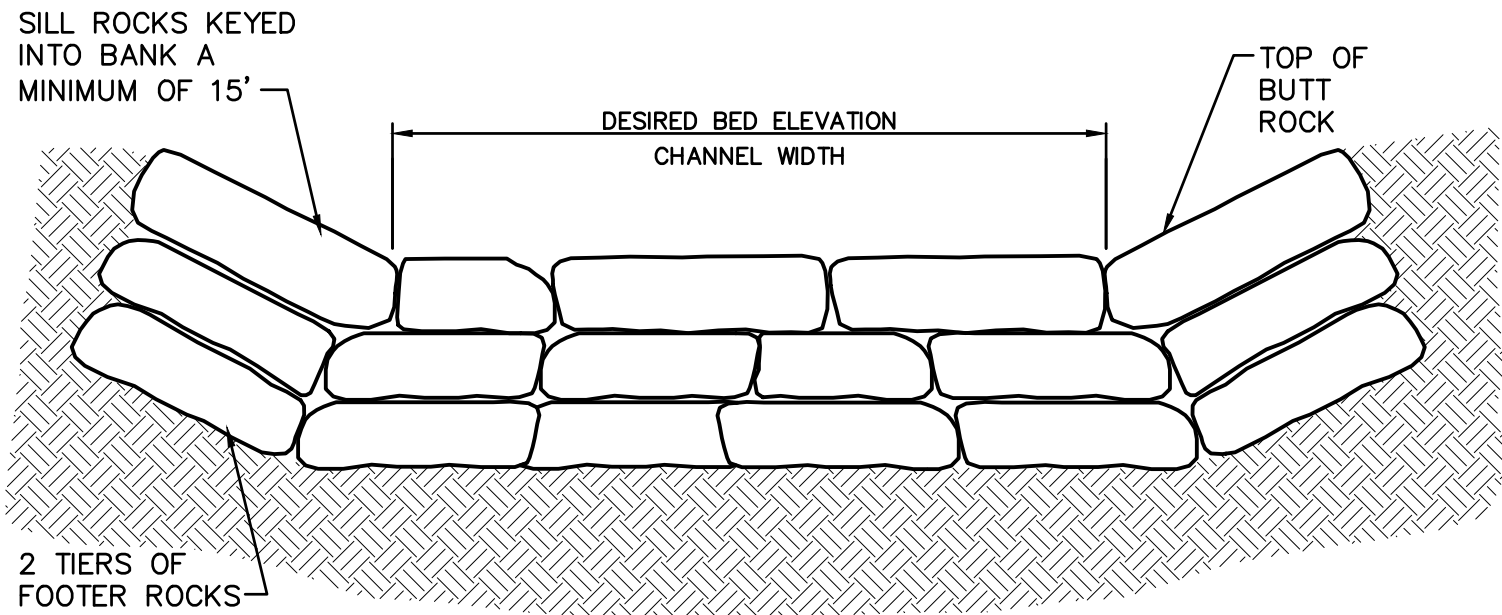
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C-301

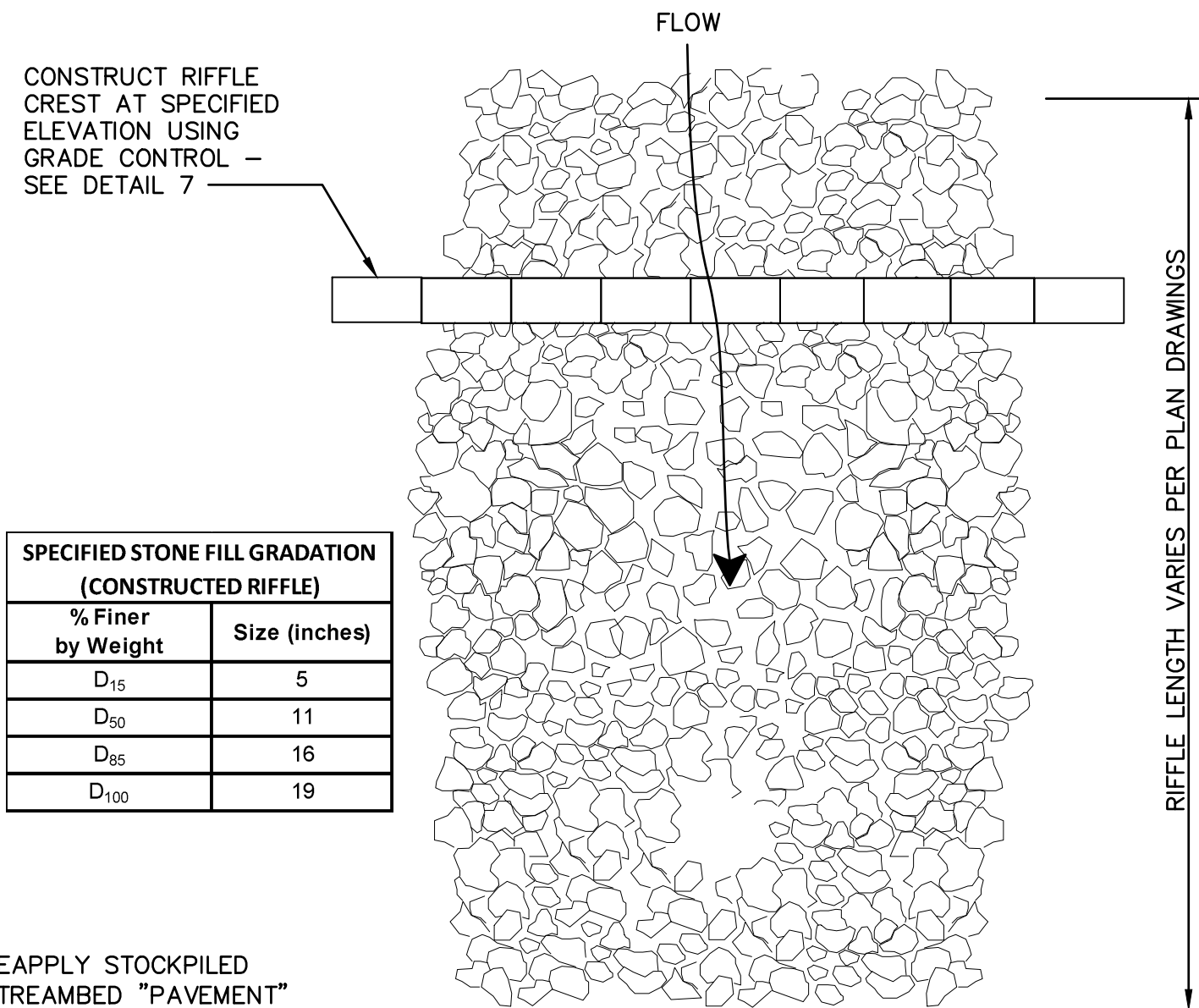
Project Number

924.068.002

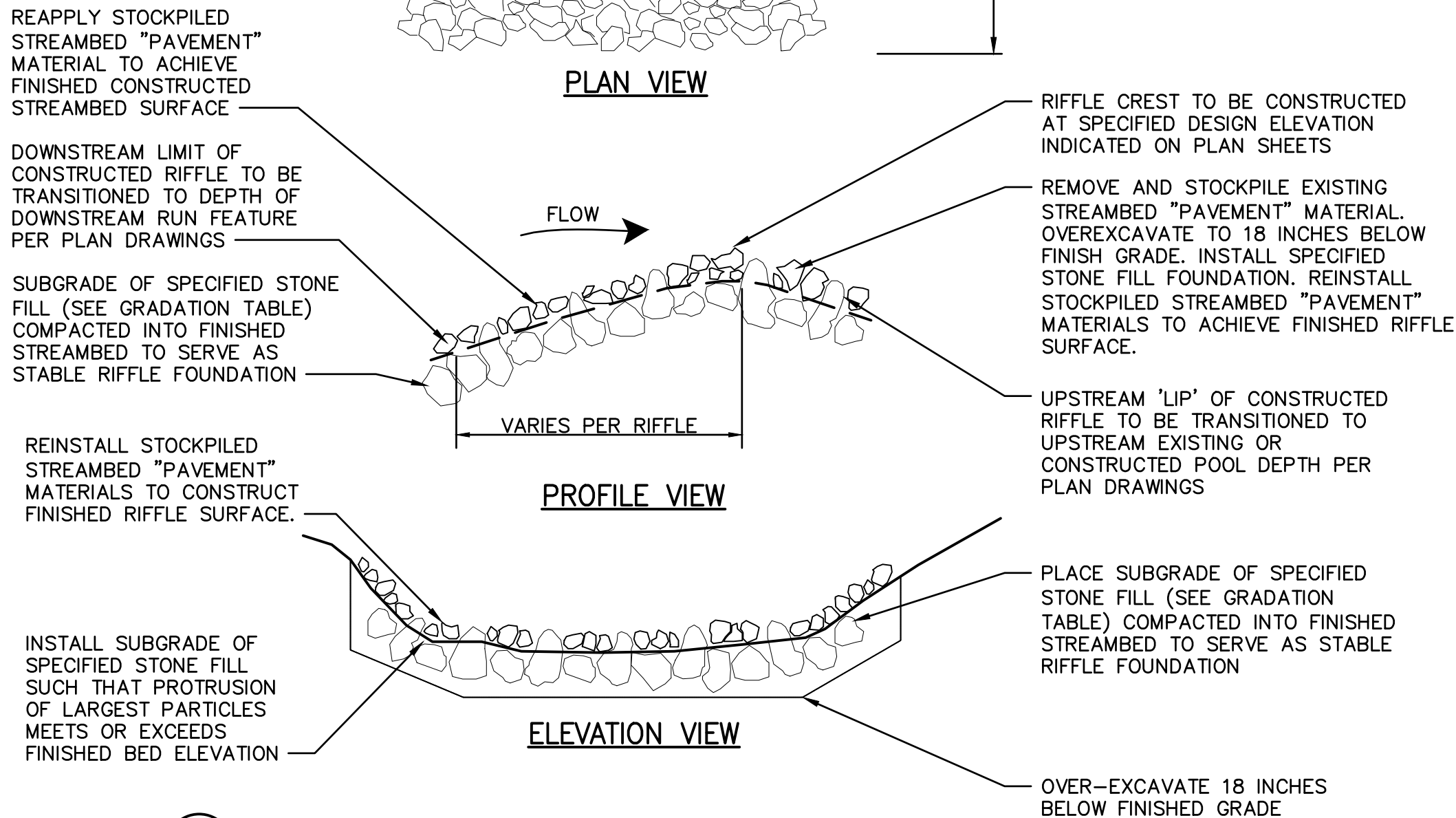
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File Name: 924.068.002_Details.dwg Project No.: 924.068.002 Project Name: Ellenville Stream Restoration Phase 2&3
Checked by: DHE Drawn by: REC Designed by: BGS In Charge of: RAM Last Saved: 11/18/2019



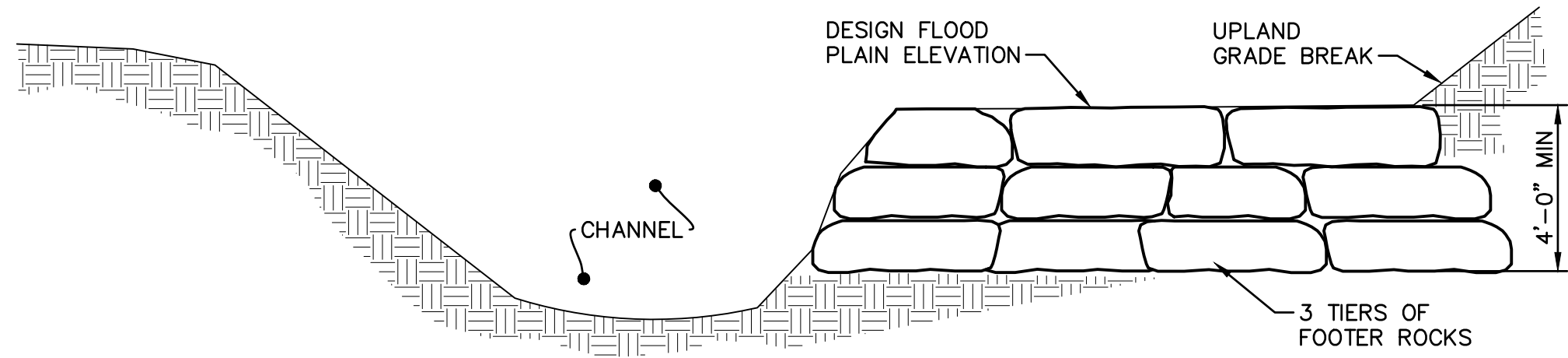
7 RIFFLE GRADE CONTROL
NOT TO SCALE



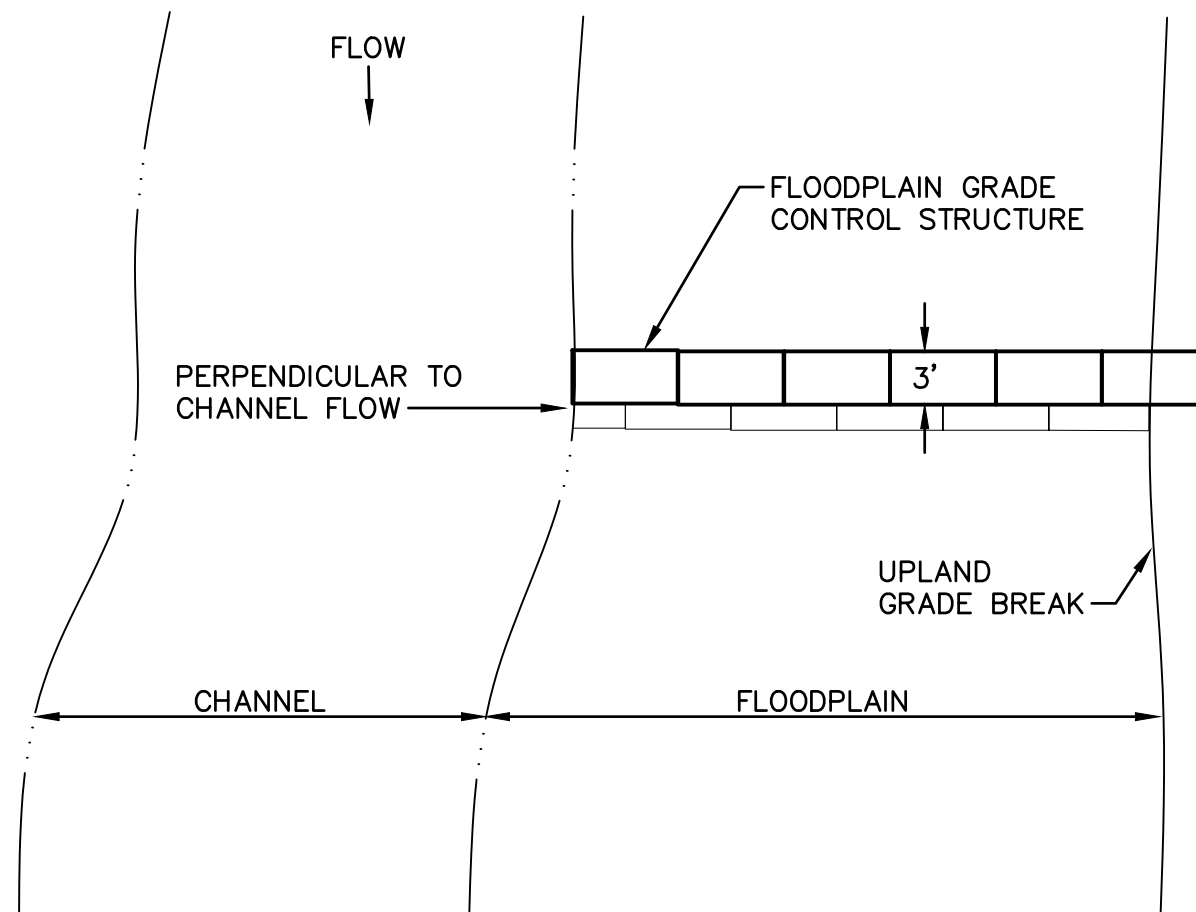
SPECIFIED STONE FILL GRADATION (CONSTRUCTED RIFFLE)	
% Finer by Weight	Size (inches)
D ₁₅	5
D ₅₀	11
D ₈₅	16
D ₁₀₀	19



8 CONSTRUCTED RIFFLE DETAIL
NOT TO SCALE

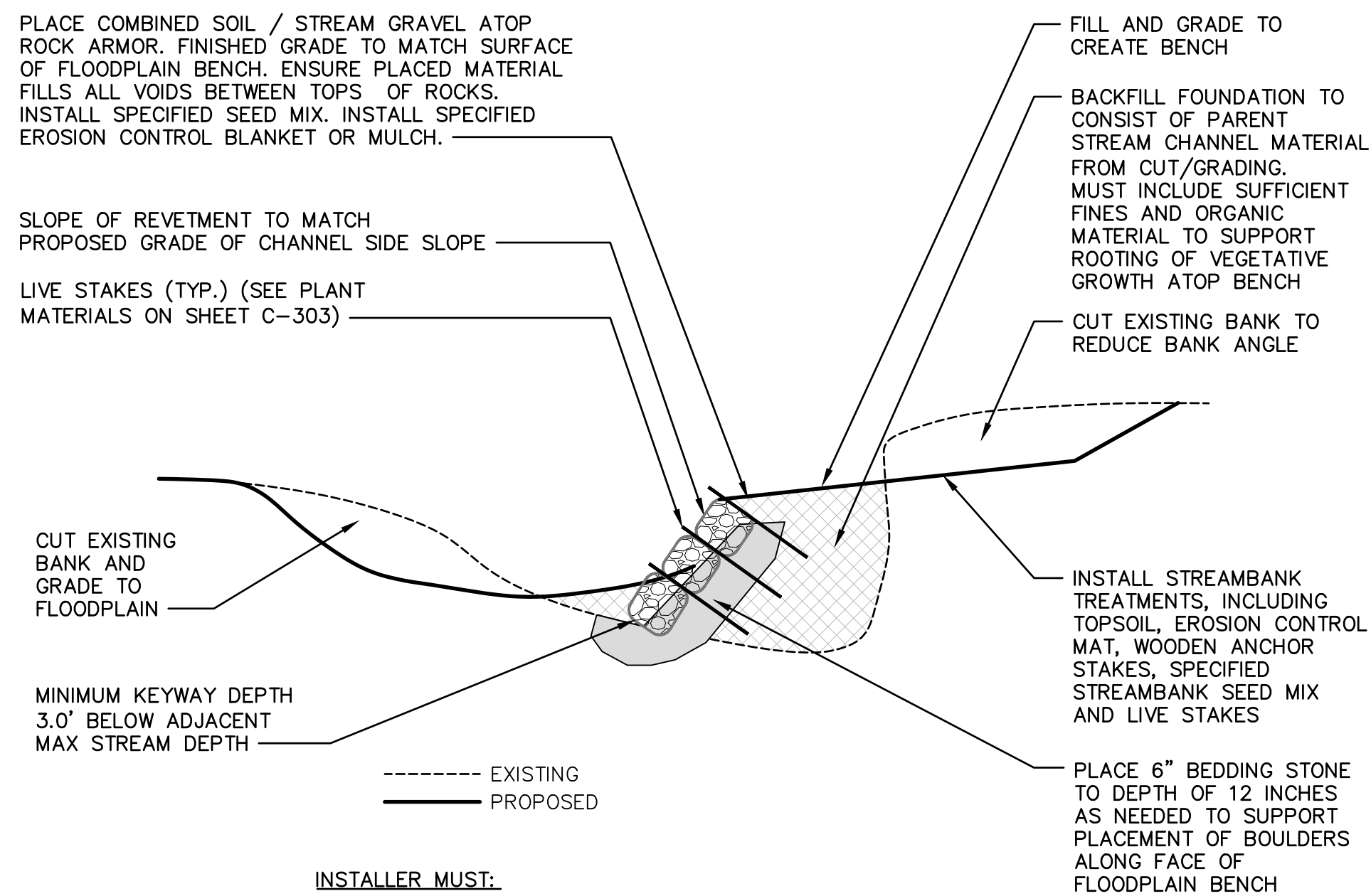


PROFILE VIEW



PLAN VIEW

9 FLOODPLAIN GRADE CONTROL STRUCTURE
NOT TO SCALE



- INSTALLER MUST:
- MAINTAIN DESIGN CROSS-SECTIONAL AREA
 - SEED & PLANT NEW BANKS WITH NATIVE RIPARIAN PLANTS
 - CONSTRUCT STABLE CROSS SECTION GEOMETRY PER DESIGN (SPECIFIC CHANNEL WIDTH AND DEPTH)

14 FLOODPLAIN BENCH AND BANK ARMORING
NOT TO SCALE

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VILLAGE OF ELLENVILLE & TOWN OF WAWARISING
STREAM RESTORATION PROJECT
DETAILS
(SHEET 2 OF 3)
TOWN OF WAWARISING
ULSTER COUNTY, NEW YORK

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DECEMBER 2019

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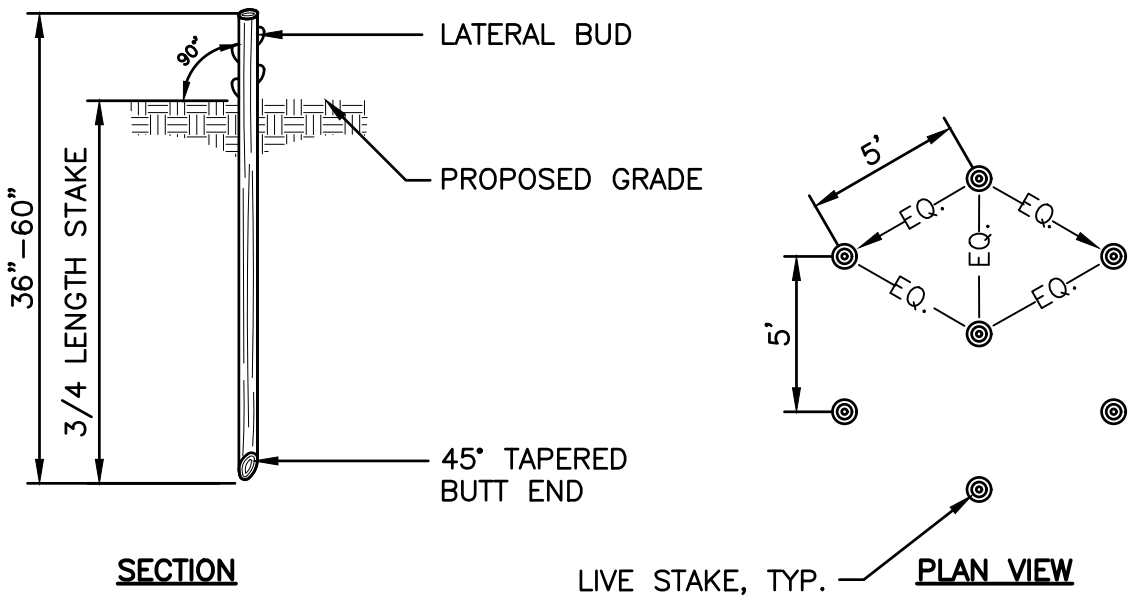
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C-302

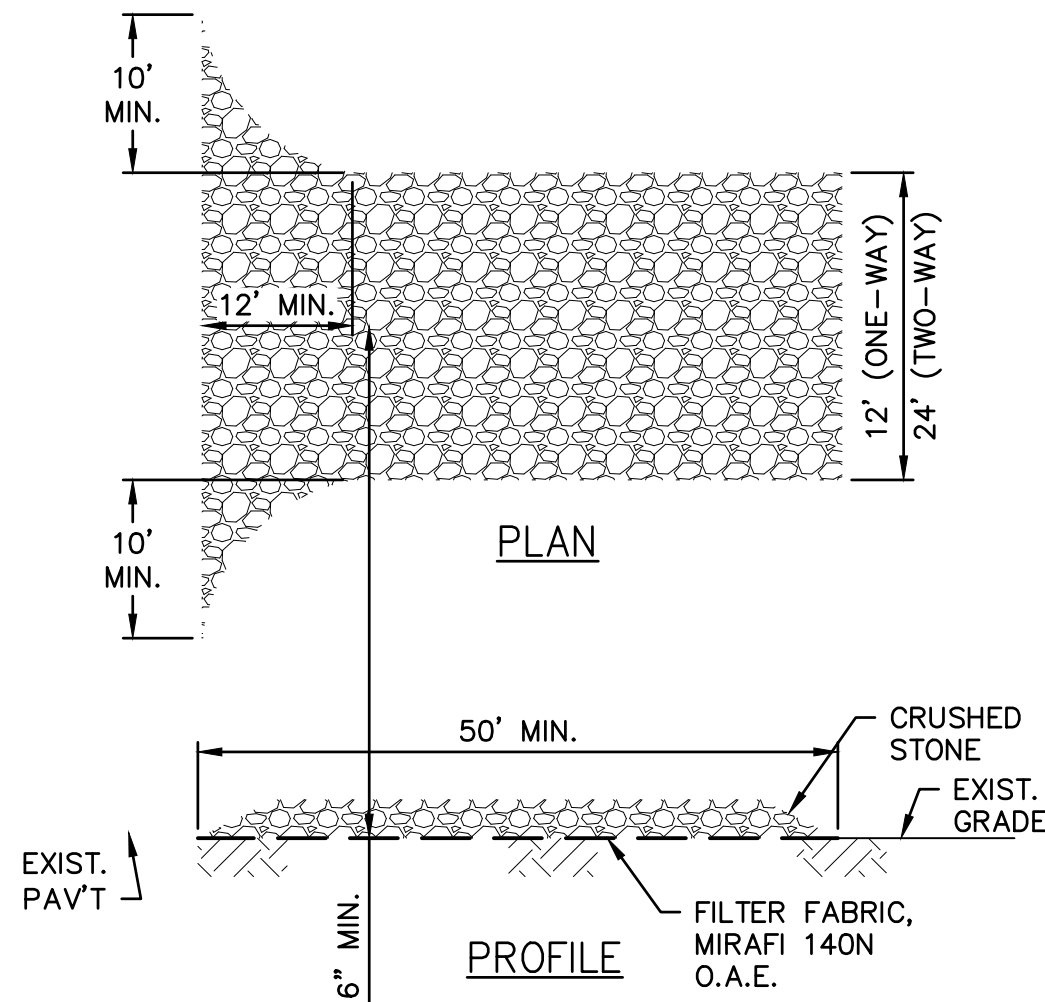
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924.068.002

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Checked by: DHE Drawn by: REC Designed by: BGS in Charge of: RAM Last Saved: 11/18/2019
SYR By: WBG



15 LIVE STAKE PLANTING DETAIL
NOT TO SCALE



NOTES:

1. MODIFICATIONS MAY BE REQUIRED TO MEET FIELD CONDITIONS.
2. PROPOSED DRAINAGE PIPES SHALL BE SIZED WITH SUFFICIENT CAPACITY TO CARRY DITCH FLOWS.
3. ALTERNATIVE WAYS OF TRANSPORTING DITCH DRAINAGE ACROSS CONSTRUCTION ENTRANCES MAY BE PROPOSED BY THE CONTRACTOR FOR APPROVAL BY THE ENGINEER.
4. ALL WORK TO CONSTRUCT THE STABILIZED ENTRANCE, INCLUDING GRADING, DRAINAGE PIPE, EXCAVATION, FILL, GEOTEXTILE, CRUSHED STONE, GRAVEL, CORRUGATED STEEL PANELS SHALL BE INCLUDED IN THE LUMP SUM BID.
5. GEOTEXTILE SHALL BE PLACED OVER THE ENTIRE AREA OF STABILIZED CONSTRUCTION ENTRANCE PRIOR TO PLACING STONE. STONE SHALL MEET THE REQUIREMENTS OF NYSDOT ITEM 623.12, CRUSHED STONE #3.
6. ALL SURFACE WATER SHALL BE DIVERTED AWAY FROM CONSTRUCTION ENTRANCE. A MOUNTABLE BERM WITH 5:1 SLOPE IS PERMITTED.
7. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT OF WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT OF WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA WITH STONE AND WHICH DRAINS ONTO AN APPROVED SEDIMENT TRAPPING DEVICE (OR CORRUGATED STEEL PANELS).
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE DONE REGULARLY AND FOLLOWING EACH RAINFALL.

16 STABILIZED CONSTRUCTION ACCESS
NOT TO SCALE

SPECIFIED RIPARIAN RESTORATION SEED MIX			
15%	VIRGINIA WILD RYE (ELYMUS VIRGINICUS)	2%	NEW YORK IRONWEED (VERNONIA NOVEBORACENSIS)
15%	RIVERBANK WILD RYE (ELYMUS RIPARIUS)	2%	COMMON MILKWEED (ASCLEPIAS SYRIACA)
15%	LITTLE BLUESTEM, 'CAMPER' (SCHIZACHYRIUM SCOPARIUM)	2%	SOFT RUSH (JUNCUS EFFUSUS)
15%	FOX SEDGE (CAREX VULPINOIDEA)	1%	CANADA GOLDENROD (SOLIDAGO CANADENSIS))
10%	DEER TONGUE (PANICUM CLANDESTINUM)	1%	WRINKLELEAF GOLDENROD (SOLIDAGO RUGOSA))
10%	BIG BLUESTEM (ANDROPOGON GERARDII)	1%	SPOTTED JOE PYE WEED (EUPATORIUM MACULATUM)
3%	BLUE VERVAIN (VERBENA HASTATA)	1%	BONESET (EUPATORIUM PERFOLIATUM)
3%	BLACK-EYED SUSAN (RUDBECKIA HIRTA)	1%	WHITE SNAKEROOT (AGERATINA ALTISSIMA)
2%	NEW ENGLAND ASTER (SYMPHYOTRICHUM NOVAE-ANGLIAE)	1%	INDIANHEMP (APOCYNUM CANNABINUM)

RIPARIAN SEED MIX TO BE APPLIED AT A RATE OF 35 LBS/ACRE

SPECIFIED COVER CROP/TEMPORARY SEED MIX	
50%	CEREAL RYE (SECALE CEREAL)
50%	OATS (AVENA SATIVA)

COVER CROP SEED MIX TO BE APPLIED AT A RATE OF 50 LBS/ACRE

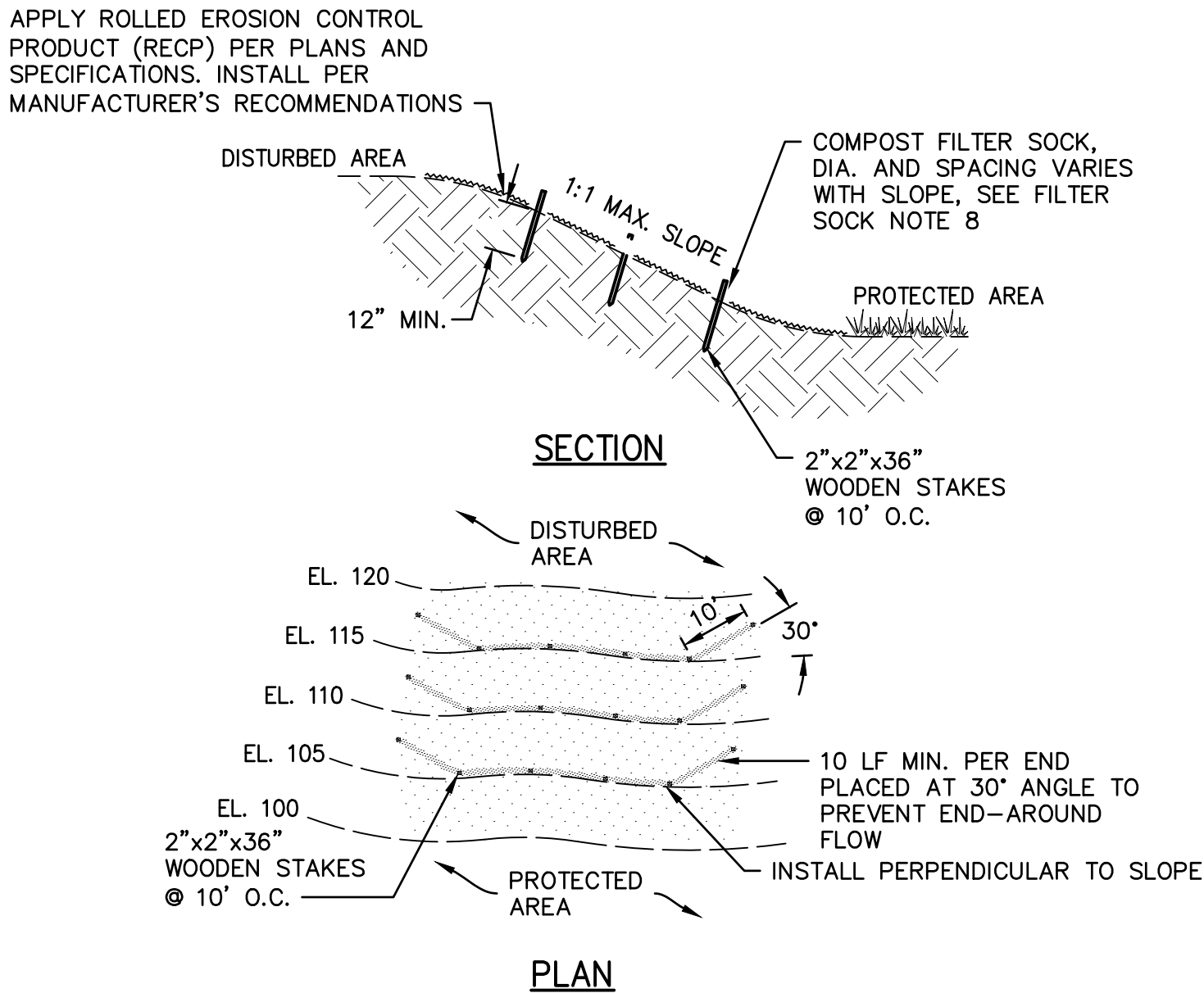
SPECIFIED LIVE STAKES	
60%	SILKY WILLOW (SALIX SERICIA)
10%	PUSSY WILLOW (SALIX DISCOLOR)
10%	SILKY DOGWOOD (CORNUS AMOMUM)
10%	RED ELDERBERRY (SAMBUCUS RACEMOSA)
10%	BLACK ELDERBERRY (SAMBUCUS CANADENSIS)

LIVE STAKES TO BE PLANTED AT A DENSITY OF 1,700 STAKES/ACRE

SPECIFIED DECIDUOUS TREES	
SPECIES	SIZE
ACER RUBRUM	5' TALL TREE
BETULA NIGRA	
PLATANUS OCCIDENTALIS	
QUERCUS BICOLOR	

TREES TO BE PLANTED AT A DENSITY OF 190 TREES/ACRE

PLANT MATERIALS



NOTES:

1. ITEMS IN THIS DETAIL MAY APPEAR EXAGGERATED TO SHOW DETAIL.
2. ROLLED EROSION CONTROL PRODUCT (RECP) SHALL REFER TO EROSION CONTROL BLANKET AND TURF REINFORCEMENT MAT (TRM). REFER TO DETAIL AND SPECIFICATIONS FOR APPROPRIATE USE OF EACH PRODUCT.
3. IF SLOPE IS BROUGHT TO FINISHED GRADE, PERMANENT TOP SOIL AND SEEDING SHALL BE INSTALLED PRIOR TO INSTALLING ROLLED EROSION CONTROL PRODUCT (RECP).
4. ROLLED EROSION CONTROL PRODUCT (RECP) SHALL BE SELECTED AND INSTALLED IN ALIGNMENT WITH THE SPECIFICATIONS. PAYMENT WILL NOT BE MADE FOR MATERIALS THAT ARE NOT ON THE APPROVED LIST, IMPROPERLY INSTALLED, NOT MAINTAINED, DAMAGED BY THE CONTRACTOR AND/OR SUB-CONTRACTORS.
5. RECP MUST BE FLUSH AND IN CONTACT WITH THE SOIL AND NOT RAISED BY CLUMPS, WEEDS, STICKS, ETC. AND MUST BE STAPLED SECURELY.
6. ALL RECP DAMAGED BY CONTRACTOR AND/OR SUBCONTRACTORS SHALL BE REPAIRED WITHIN THREE (3) CALENDAR DAYS OF THE DAMAGE OCCURRENCE AT NO ADDITIONAL COST TO THE OWNER.

17 TEMPORARY & PERMANENT SLOPE STABILIZATION
NOT TO SCALE

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VILLAGE OF ELLENVILLE & TOWN OF WAWARISING
STREAM RESTORATION PROJECT
DETAILS
(SHEET 3 OF 3)
TOWN OF WAWARISING
ULSTER COUNTY, NEW YORK

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Date

DECEMBER 2019

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AS SHOWN

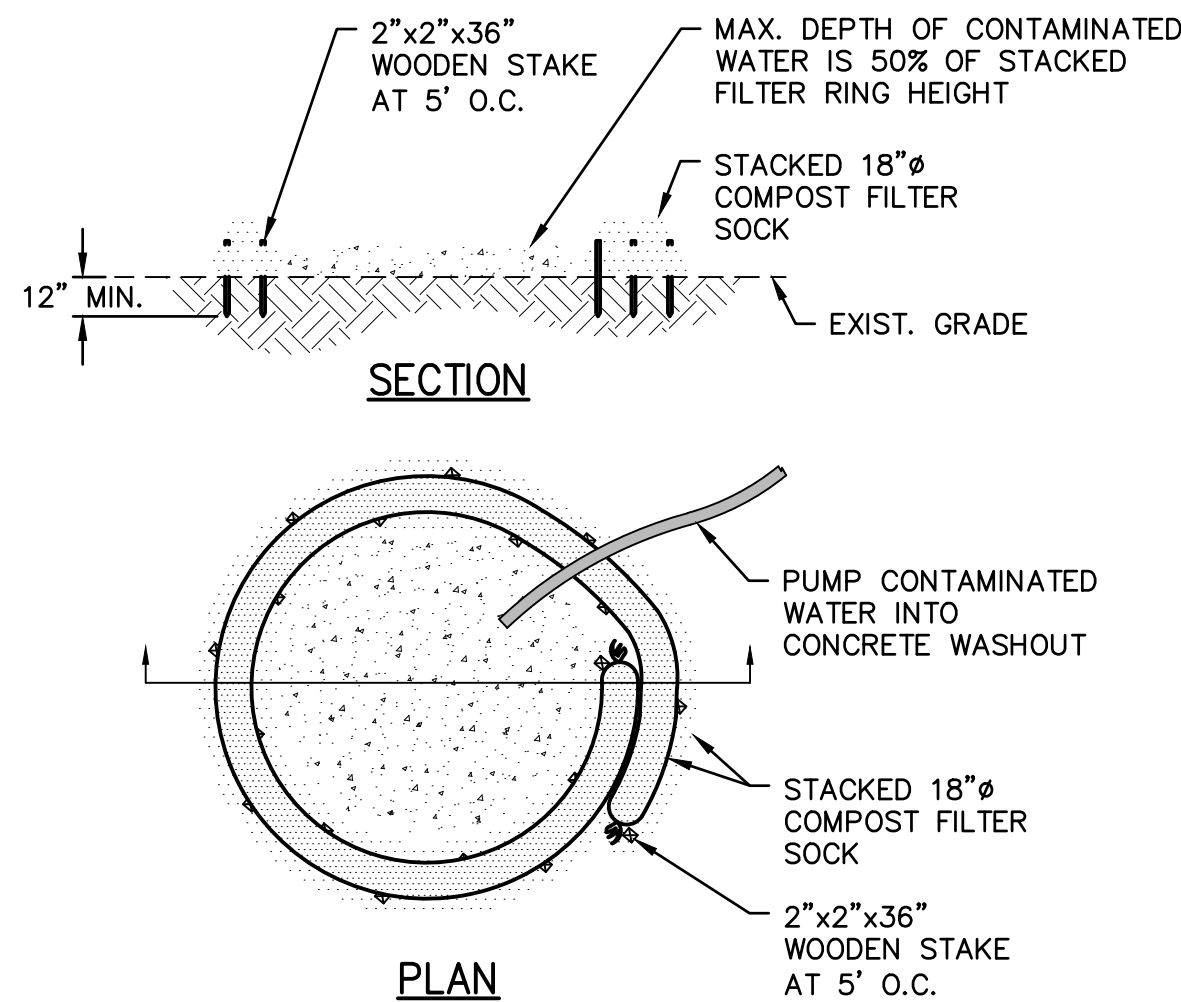
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Project Number

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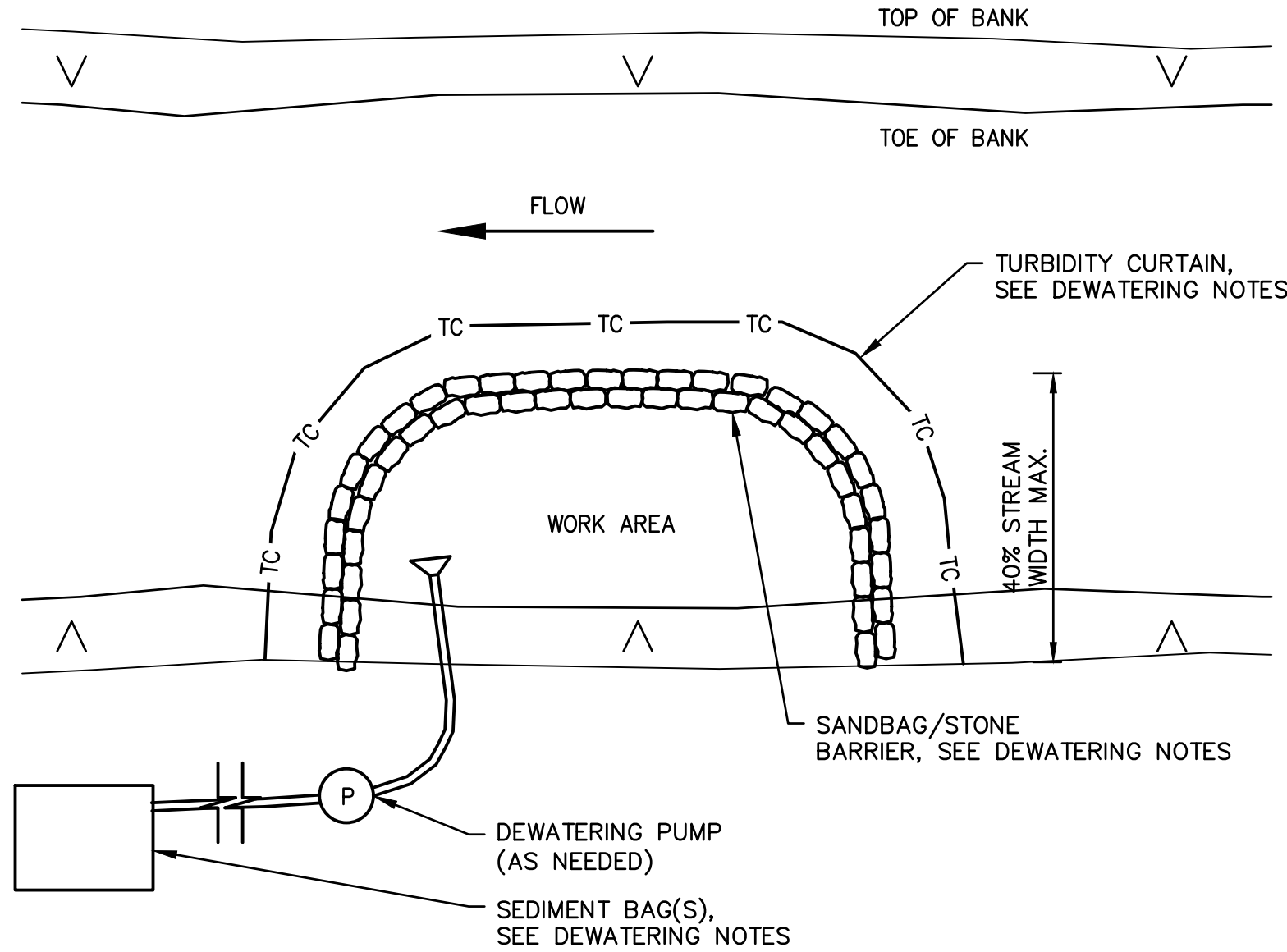
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File Name: 924.068.002_Details.dwg Project No.: 924.068.002 Project Name: Ellenville Stream Restoration Phase 2&3
Checked by: DHE Drawn by: REC Designed by: BGS in Charge of: RAM Last Saved: 11/18/2019
SYR By: WBG



NOTES:

1. LOCATE WASHOUT FACILITY ON FLAT GRADE A MINIMUM OF 100 FEET AWAY FROM OPEN CHANNELS, STORM DRAIN INLETS, SENSITIVE AREAS, WETLANDS, BUFFERS AND WATER COURSES AND AWAY FROM CONSTRUCTION TRAFFIC.
2. SIZE WASHOUT FACILITY FOR VOLUME NECESSARY TO CONTAIN WASH WATER AND SOLIDS AND MAINTAIN AT LEAST 4 INCHES OF FREEBOARD. TYPICAL DIMENSIONS ARE 10 FEET X 10 FEET X 3 FEET DEEP.
3. COMPOST FILTER SOCKS MAY BE DIRECT SEEDED AT TIME OF INSTALLATION.
4. PROVIDE A SIGN FOR THE WASHOUT IN CLOSE PROXIMITY TO THE FACILITY.
5. INSPECT WASHOUT DAILY. KEEP PRACTICE WATER TIGHT. EMPTY OR REPLACE WASHOUT STRUCTURE THAT IS 50 PERCENT FULL, AND DISPOSE OF ACCUMULATED MATERIAL PROPERLY. DO NOT REUSE COMPOST FILTER SOCKS. WET-VACUUM STORED LIQUIDS THAT HAVE NOT EVAPORATED AND DISPOSE OF IN AN APPROVED MANNER. PRIOR TO FORECASTED RAINSTORMS, REMOVE LIQUIDS OR COVER STRUCTURE TO PREVENT OVERFLOWS. REMOVE HARDENED SOLIDS, WHOLE OR BROKEN UP, FOR DISPOSAL OR RECYCLING. MAINTAIN RUNOFF DIVERSION AROUND EXCAVATED WASHOUT STRUCTURE UNTIL STRUCTURE IS REMOVED.
6. ALTERNATIVE CONSTRUCTION USING STRAW BALES AND 10 MIL OR THICKER UV RESISTANT, IMPERMEABLE SHEETING MAY BE APPROVED BY ENGINEER PRIOR TO INSTALLATION

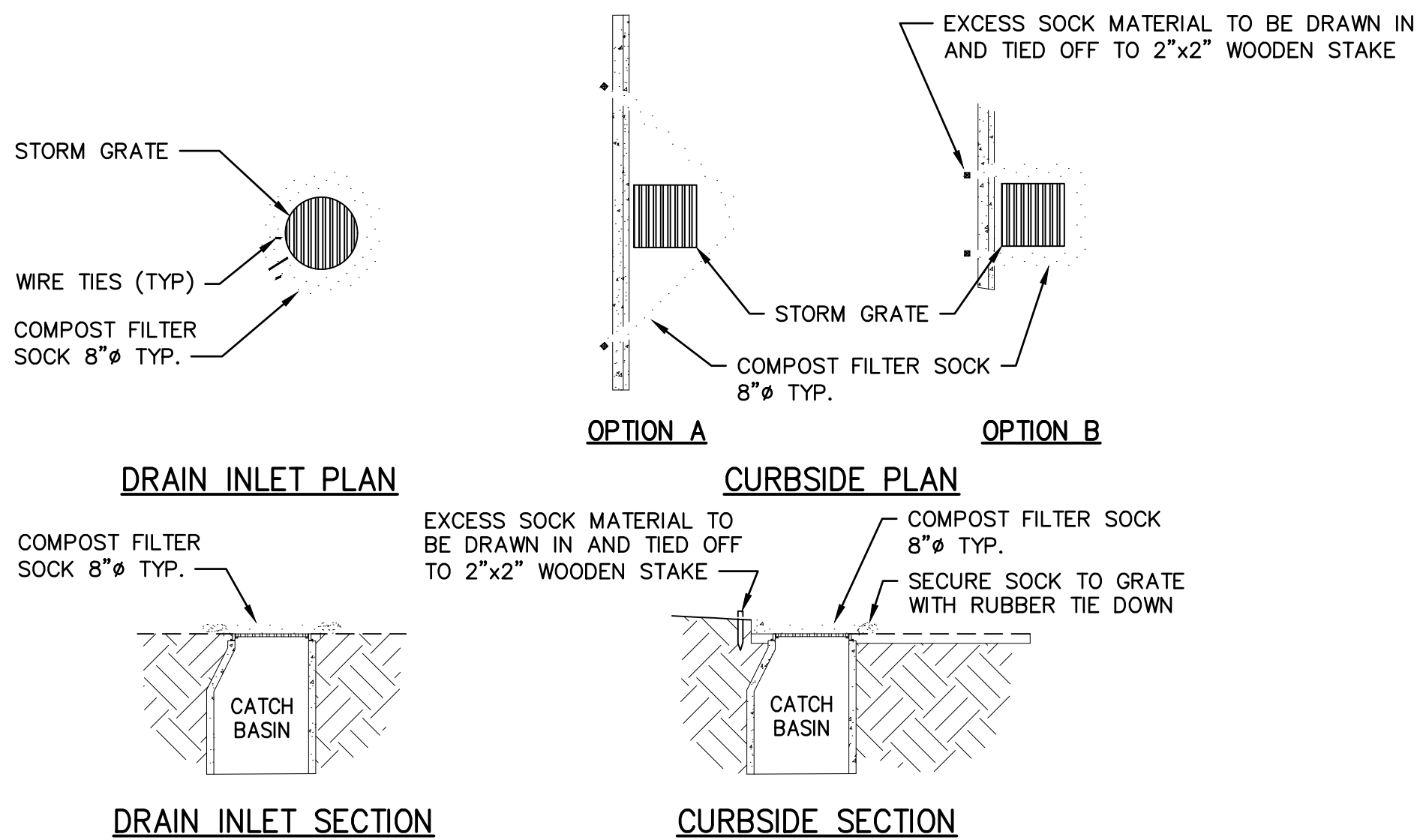
18 CONCRETE WASHOUT
NOT TO SCALE



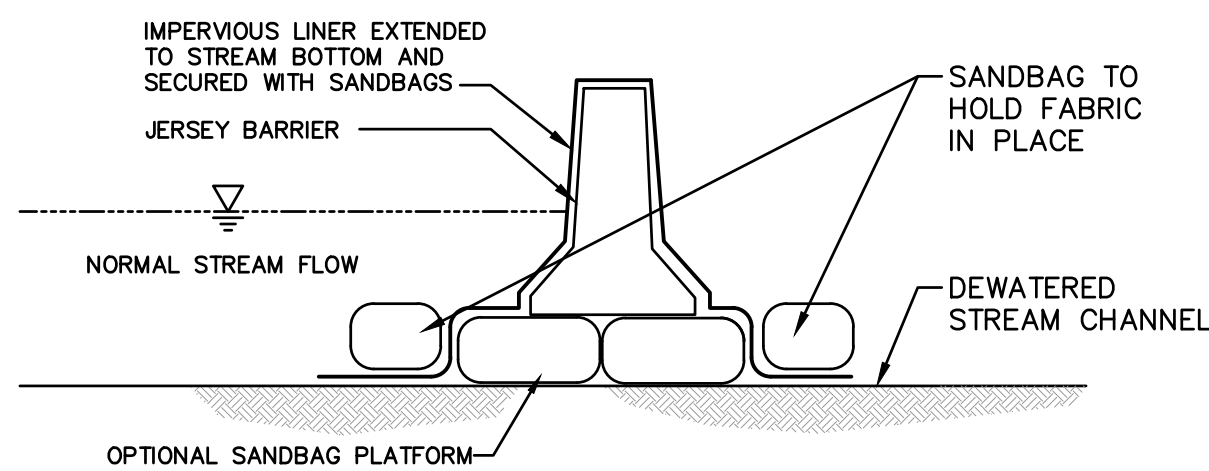
DEWATERING NOTES:

1. CONTRACTOR SHALL SUBMIT THEIR OWN DEWATERING/SEDIMENT CONTROL PLAN AS A SUBMITTAL FOR ENGINEER'S REVIEW. IDENTIFY FLOW PATHS FOR DISCHARGE OF DEWATERED FLOW TO STREAM.
2. SANDBAG OR STONE BARRIER MAY BE UTILIZED TO ISOLATE THE WORK AREA. INSTALL TURBIDITY CURTAIN ON STREAM SIDE OF BARRIER. EXCAVATED STONE MAY BE USED TO CREATE BARRIER.
3. DEWATERING DISCHARGE HOSE FROM PUMP(S) SHALL CROSS THE CLOSED PORTION OF OLD GREENFIELD ROAD. LOCATE SEDIMENT BAGS WITHIN EXISTING DRAINAGE DITCH ON NORTH SIDE OF OLD GREENFIELD ROAD AND MONITOR CLARITY OF DISCHARGE FLOW. MULTIPLE SEDIMENT BAGS TO BE EMPLOYED IN SERIES IF WATER QUALITY INDICATED IS NECESSARY.
4. INSTALL LIGHT RIP-RAP AT DISCHARGE END IF SIGNS OF EROSION IN DITCH APPEAR.
5. PROTECT ROAD SURFACE FROM DAMAGES. RESTORE ALL DISTURBED AREAS.
6. THE DEWATERING SYSTEMS SHALL BE DEPLOYED SUCH THAT THE DEWATERED "WORK AREA" SHALL BE LIMITED TO AN AMOUNT OF WORK THAT CAN BE COMPLETED WITHIN ONE TO TWO DAYS.

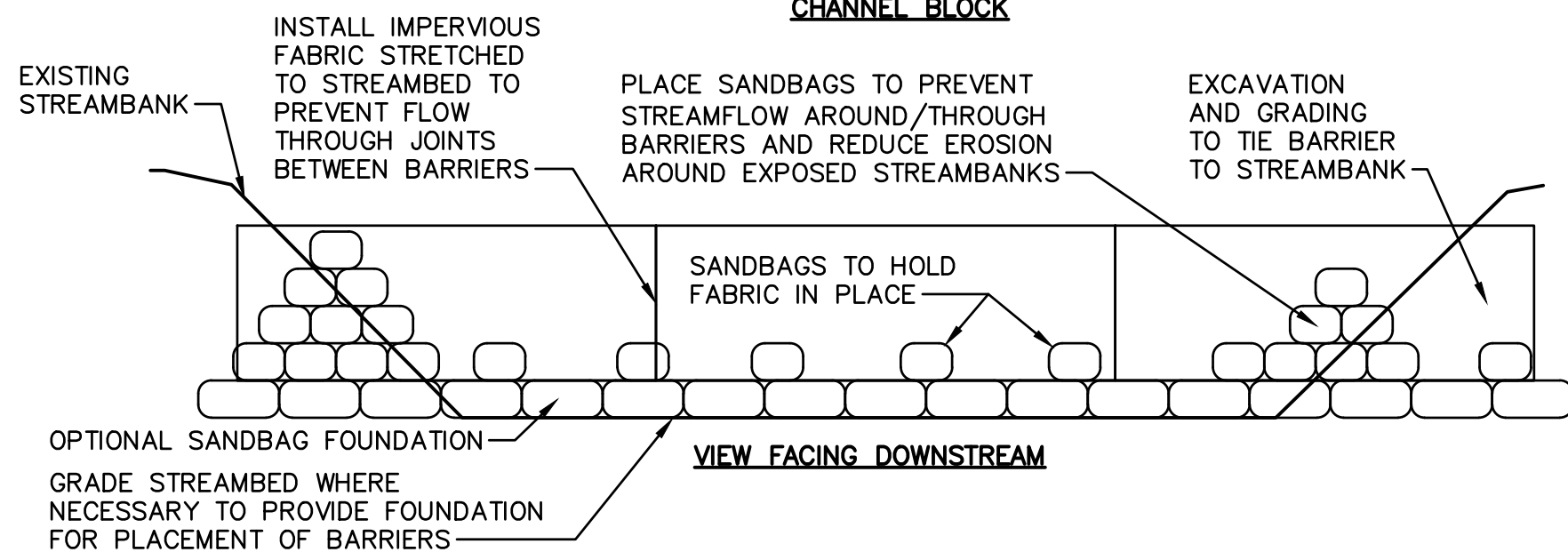
19 DEWATERING/ESC DETAIL FOR ISOLATED WORK AREAS
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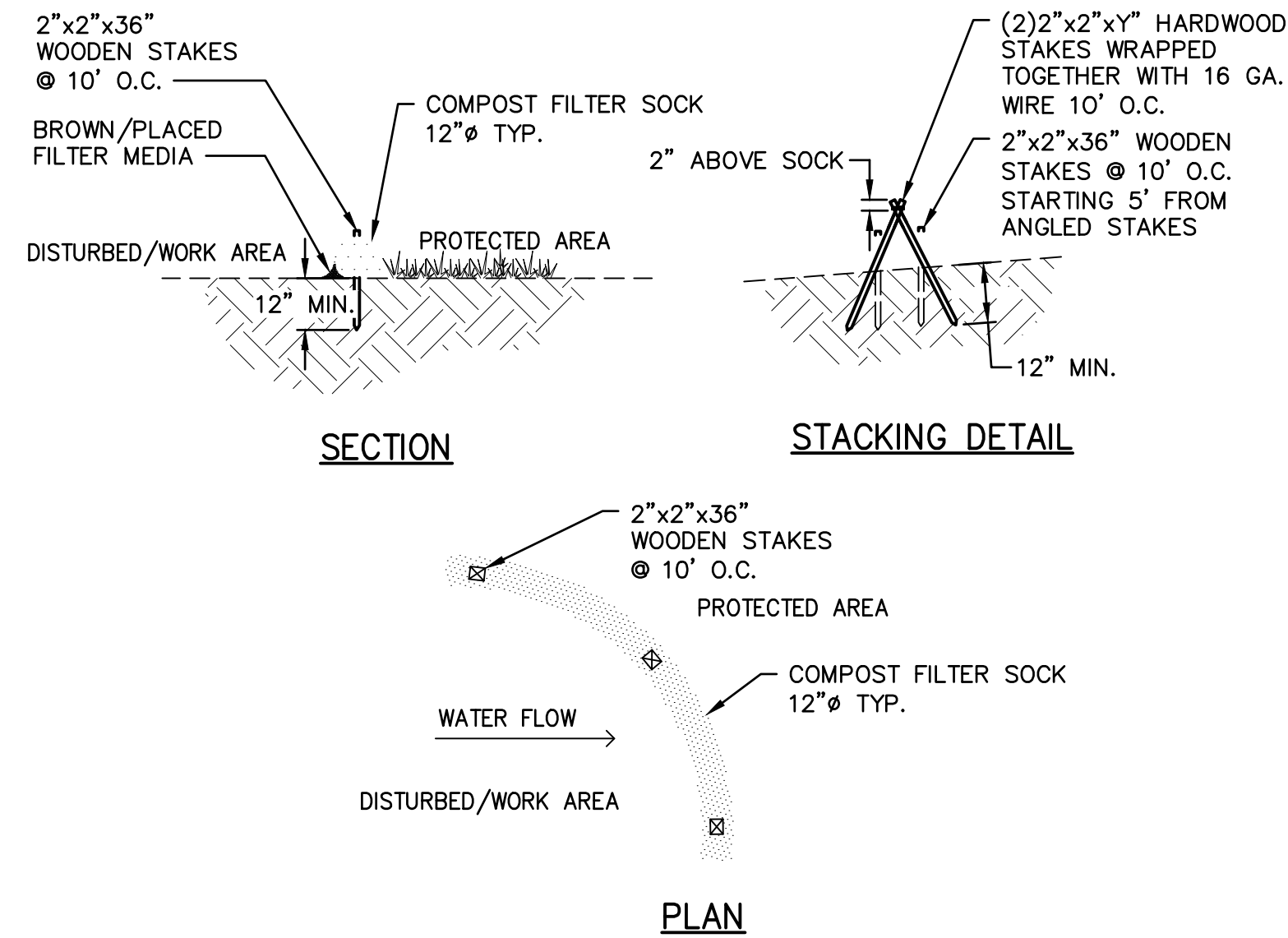
20 INLET PROTECTION
NOT TO SCALE



21 TEMPORARY COFFER DAM/ CHANNEL BLOCK DETAIL
NOT TO SCALE



22 DEWATERING DETAIL FOR BYPASS PUMPING
NOT TO SCALE



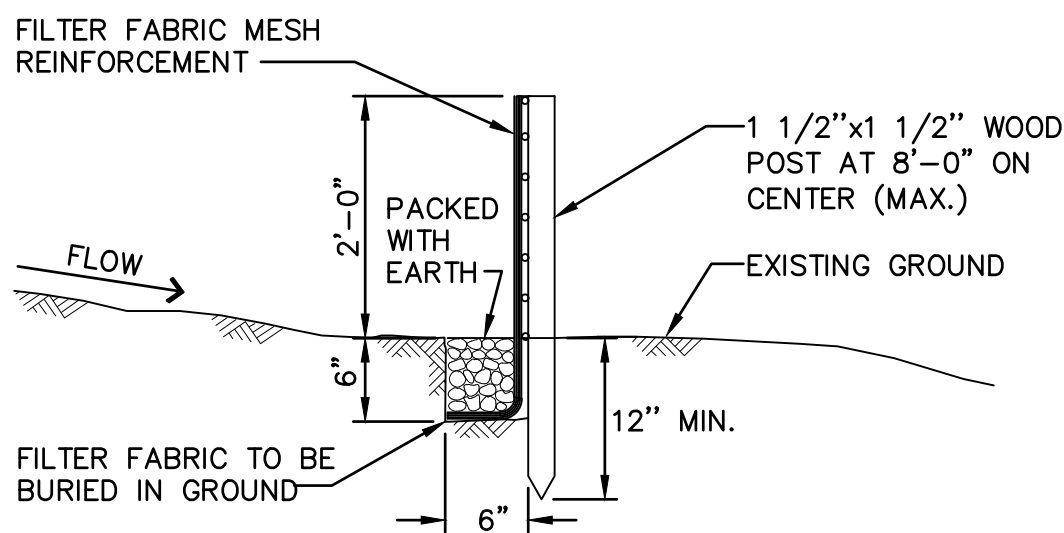
NOTES:

1. COMPOST FILTER SOCKS ARE A TEMPORARY SEDIMENT CONTROL PRACTICE COMPOSED OF A DEGRADABLE GEOTEXTILE MESH TUBE FILLED WITH COMPOST FILTER MEDIA TO REDUCE RUNOFF VELOCITY, FILTER SEDIMENT AND OTHER POLLUTANTS ASSOCIATED WITH CONSTRUCTION ACTIVITY, AND TO PREVENT THEIR MIGRATION OFFSITE.
2. FILTER SOCKS CAN BE USED IN SENSITIVE AREAS WHERE CONTROL OF WEEDS AND INVASIVE PLANT SPECIES IS DESIRED.
3. FILTER SOCKS SHALL BE INSTALLED ON A LINE OF EQUAL ELEVATION (CONTOUR). THEY MAY BE INSTALLED AT INTERMEDIATE POINTS UP SLOPES AS WELL AS AT THE BOTTOM. ALL TERMINAL ENDS SHALL EXTEND 10 FEET UPSLOPE AT A 30° ANGLE TO PREVENT BYPASS FLOW.
4. FILTER SOCKS SHALL NOT BE USED IN OR ACROSS A FLOWING NATURAL CHANNEL. REFER TO CHECK DAM DETAIL AND SPECIFICATION.
5. FILTER SOCKS ARE NOT TO BE INSTALLED SO THAT RUNOFF WILL FLOW ALONG THE FILTER SOCK IN A CONCENTRATED MANNER.
6. FILTER SOCKS SHALL BE PLACED A MINIMUM OF 2 FEET FROM TOE OF SLOPE, (5 FEET PREFERRED), TO PROVIDE ADEQUATE AREA FOR SEDIMENT STORAGE AND TO FACILITATE MAINTENANCE OF THE SEDIMENT CONTAINMENT AREA.
7. POSTS MAY BE 2" x 2" MIN. WOOD OR 2 kg/m MIN. STEEL. SPACING SHALL BE AS RECOMMENDED BY THE MANUFACTURER. FOR USE ON IMPERVIOUS SURFACES SUCH AS ROAD PAVEMENT OR PARKING AREAS, PROPER ANCHORAGE MUST BE PROVIDED TO PREVENT SHIFTING OF THE SOCK OR SEPARATION OF THE CONTACT BETWEEN THE SOCK AND THE PAVEMENT.
8. FILTER SOCKS SHALL BE BETWEEN 12" AND 32". THE MAXIMUM SLOPE LENGTH ABOVE A FILTER SOCK SHALL NOT EXCEED THE FOLLOWING

DIA.	SLOPE (%)									
	2	5	10	20	25	33	50			
8"	225'	200'	100'	50'	20'	-	-			
12"	250'	225'	125'	65'	50'	40'	25'			
18"	275'	250'	150'	70'	55'	45'	30'			
24"	350'	275'	200'	130'	100'	60'	35'			
32"	450'	325'	275'	150'	120'	75'	50'			

9. MEASURES SHALL BE INSPECTED EVERY 7 CALENDAR DAYS, AFTER EACH RAINFALL OF 0.5" OR MORE WITHIN A 12 HOUR PERIOD, OR DAILY DURING PROLONGED RAINFALL. MEASURES SHALL BE CLEANED AND REPAIRED AS REQUIRED.
10. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES ONE-HALF OF THE ABOVE GROUND HEIGHT. SEDIMENT SHALL BE DISPOSED OF AS UNSUITABLE MATERIAL.
11. UPON STABILIZATION OF THE AREA TRIBUTARY TO THE FILTER SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR THE MESH CAN BE CUT AND THE COMPOST SPREAD AS AN ADDITIONAL MULCH TO ACT AS A SOIL SUPPLEMENT.
12. MAXIMUM DRAINAGE AREA TRIBUTARY TO 100' OF FILTER SOCK SHALL BE 0.5 ACRE

23 COMPOST FILTER SOCK
NOT TO SCALE



24 SILT FENCE FOR TEMPORARY EROSION CONTROL
NOT TO SCALE

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION".

REVISIONS

VILLAGE OF ELLENVILLE & TOWN OF WAWARSING
STREAM RESTORATION PROJECT
EROSION & SEDIMENT CONTROL DETAILS
ULSTER COUNTY, NEW YORK
TOWN OF WAWARSING

Barton & Loguidice

DRAFT

Date

DECEMBER 2019

Scale

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